



52619

Scientific and Technical Information Center

Requester's Full Name: _										
		Examiner = :	Date:							
Art Unit:	Phone Number 30	Examiner = : Date: Serial Number:								
Mail Box and Bldg/Roor	n Location:	Results Format Preferred (circle): PAPER DISK E-MAIL								
f more than one searc	h is submitted, please	prioritize searches in order of ne	ed. ********							
nclude the elected species or utility of the invention. Define cown. Please attach a copy of the copy	structures, keywords, synony ne any terms that may have a of the cover sheet, pertinent c		ombine with the concept or i citations, authors, etc. if							
Inventors (please provide fi	ull names):									
		· -								
Earliest Priority Filing D	Date:	<u>. </u>								

STAFF USE ONLY Searcher	Type of Search NA Sequence (#)	Vendors and cost where applicable
Searcher Phone =	AA Sequence (#)	Dialog
Searcher Location	Structure (#)	Questel/Orbit
Date Searcher Picked Up 1011	Віблодгарніс	Dr Link
Date Completed	Litigation	Lexis/Nexis
Scarener Prep & Review Time	Fulltext	Sequence Systems
Clencal Prep Time	Patent Family	www/Internet
Online Time	Other	Other (specify)

PTO-1590 (1-2000)

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Result
No.
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Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence:
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   Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being p and is derived by analysis of the total score distribution.
   Score
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Match
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
   October 13, 2001, 01:44:58; Search time 54.72 Seconds (without alignments) 517.853 Million cell updates/sec
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Gapop 10.0 , Gapext 0.5
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2116
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 ВВ
JC34015
JC34015
JC4892
S22124
S22124
S29702
A32375
A32375
JN0473
JT33821
JT33821
JT33821
JT33821
JT33821
JT33821
JT30239
JT20239
A18772
JC5092
JT20239
A18772
JC5092
JT20239
A18791
JC5092
JC50
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C4BP alpha
HIV gpl20
aggrecan |
IgE Fc rea
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
157	159	159	160	160	160.5	161	162	162	162.5	163	163	164.5	165	165.5	165.5
7.4	7.5	7.5	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.8
331	2327	1340	2415	1091	1455	469	1574	304	345	2124	669	482	311	1479	560
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LNMSER	T42630	A39808	A39086	PL0009	A48925	NBMSC4	T13954	JX0209	NBBO	A28452	865551	A34924	LNHU2A	T42710	T16833
IgE Fc receptor, 1	aggrecan - bovine	proteoglycan core	aggrecan precursor	complement C3d/Eps	mannose receptor p	C4b-binding protei	MEGF6 protein - ra	lectin, galactose/	apolipoprotein H p	proteoglycan core	factor H - bovine	complement C3b/C4b	asialoglycoprotein	mannose receptor,	hypothetical prote

ALIGNMENTS

P F	RESULT 1
	L-selectin precursor, long splice form - human L-selectin precursor, long splice form - human N;Alternate names: CD62L; leucocyte cell adhesion molecule-1 (LECAM-1, LAM-1); leukoc ral lymph node homing receptor Leu-8 C:Species: Homo sablens (man)
	C;Date: 10:Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jul-2000 C;Accession: I55333; S06798; JL0104; A34015; A33912 R;Ord, D.C.; Ernst, T.J.; Zhou, L.J.; Rambaldi, A.; Spertini, O.; Griffin, J.; Tedder
	J. Biol. Chem. 265, 7760-7767, 1990 A;Title: Structure of the gene encoding the human leukocyte adhesion molecule-1 (TQ1, A;Reference number: 155333; MUID:90243637 A.Accossion. T55333
ce to have a	A; Accession: 13333 A; Status: translated from GB/EMBL/DDBJ A; Molecule type: DNA
ilt being printed,	A; Residues: 14-385 <ord> A; Cross-references: GB:M32414; NID:g187259; PIDN:AAB60700.1; PID:g386860</ord>
	R;Camerini, D.; James, S.P.; Stamenkovic, I.; Seed, B. Nature 342, 78-82, 1989
	A;Title: Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing receptor. A;Reference number: S06798; MUID:90044046
Description	A; Accession: S06798 A: Molecule type: mRNA
	A; Residues: 1-225, 'S', 227-385 < CAM>
L-selectin precurs	A; Note: this translation is not annotated in GenBank entry HSLEU8, release 111.0
L-selectin precurs	R;Tedder, T.F.; Isaacs, C.M.; Ernst, T.J.; Demetri, G.D.; Adler, D.A.; Disteche, C.M. J. Exn. Med. 170. 123-133, 1989
	A;Title: Isolation and chromosomal localization of cDNAs encoding a novel human lymph
L-selectin precurs	oteins.
P-selectin precurs	A;Reference number: JLU1U4; MUID:8931U35U A;Accession: JL0104
P-selectin precurs	A; Molecule type: mRNA
P-selectin - rat	A;Residues: 1-230; N', 232; N', 234-254; E;D> <ted> A:Crosq:references: GB:X14150: NID:G34428 DIDN:CA841275; 1: PID:G34429</ted>
endothelial leukoc	A; Note: the translated sequence in GenBank entry HSLYAM1, release 111.0, differs from
E-selectin precurs	R;Bowen, B.R.; Nguyen, T.; Lasky, L.A. J. Cell Biol. 109, 421-427, 1989
E-selectin - pig	A; Title: Characterization of a human homologue of the murine peripheral lymph node ho
hypothetical prote coaqulation factor	A;Reference number: A34015; MUID:89308881 A;Accession: A34015
complement factor	A;Status: preliminary
complement recento	A:MOLECULE TYPE: MRNA
complement C3b/C4b	A;Cross-references: GB:X16070; NID:g38092; PIDN:CAA34203.1; PID:g38093
HIV gp120-binding	Proc. Natl. Acad. Sci. U.S.A. 86, 5562-5566, 1989
aggrecan precursor	A;Title: Human nomologue or mouse lymph node noming receptor: evolutionary conservations. A;Reference number: A33912; MUID:89315837
C4BP protein alpha	A;Status: preliminary
	riting of Eq. marrie

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Gene 181, 219-220, 1996
A;Title: PCR cloning of the cDNA encoding
A;Reference number: JC5377; MUID:97128794
A;Accession: JC5377
A;Molecule type: mRNA
A;Residues: 1-372 <TSU1>
                                                                                                                                      C;Species: Papio hamadryas (hamadryas baboon)
C;Date: 02-Jun-1997 #sequence_revision 12-Sep-1997
C;Accession: JC5377; PC4315
R;Tsurushita, N.; Fu, H.; Berg, E.L.
Gene 181, 219-220, 1996
    A; Residues: 1-372 <TSU1>
A; Cross-references: GB:U52074;
                                                                                                                                                                                                                                                                                    RESULT
JC5377
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F;369-385/Domain: intracellular #status predicted <INT>
F;73,117,190,245,259/Binding site: carbohydrate (Asn) (covalent) #status F;377,380/Binding site: phosphate (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Residues: 14-205,'L',207-385 <SIE>
A;Cross references: GB:M25280; NID:g187182; PIDN:AAC63053.1;
C;Comment: For an alternative splice form see pressure.
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F;173-204/Domain: EGF homology <EGF>
F;210-267/Domain: complement factor H repeat homology <FH1>
F;272-329/Domain: complement factor H repeat homology <FH2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F;1-51/Domain: signal sequence #status predicted <SIG>F;42-168/Domain: C-type lectin homology <LCH>F;52-385/Product: L-selectin #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Description: binds with low affinity to oligosaccarides like heparan sulfate and sialy ment of leucocytes to areas of inflammation, and with CD162 mediates neutrophil-neutrophic;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology; C;Keywords: alternative splicing; cell adhesion; duplication; glycoprotein; inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Gene: GDB:SELL; GDB:LNHR; LSEL; LAM1; LYAM1; LAM-1
A;Cross:references: GDB:120157; GDB:118834; OMIM:153240
A;Map position: 1922-1923
A;Introns: 14/3; 42/1; 171/1; 207/1; 269/1; 331/1; 374/:
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                                                                                                                                                                                                                                                                                                                                                                           374
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         GKKSKRSMNDPY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFSFSSQCAFSCSEGTNLTGIEETT
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    NID:g1326148;
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Pred. No. 4.8e
1; Mismatches
                                                                                                                   baboon
PIDN:AAB40903.1; PID:g1326149
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nes 3;
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C;Comment: This protein involved in leukocyte-endothelial adhesion; it mediates adhes C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homolog F;1-37/Domain: signal sequence #status predicted <SIG>F;29-155/Domain: C-type lectin homology <LCH>F;38-376/Product: L-selectin #status predicted <MAT>F;160-191/Domain: EGF homology <EGF>F;197-254/Domain: complement factor H repeat homology <FHI>F;197-254/Domain: complement factor H repeat homology <FHR>
                                                                                                                                                                                                                                                                                       R;Qian, J.; Huang, X.; Marks, R.M.
Biochem. Biophys. Res. Commun. 225, 406-412, 1996
A;Title: Cloning of the cDNA for rabbit L-selectin
A;Reference number: JC4892; MUID:96354800
A;Accession: JC4892
                                                                                                                                                                                                                    A; Molecule type: mRNA
A; Residues: 1-376 <QIA>
                                                                                                                                                                                                                                                                                                                                                                                                         L-selectin precursor - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 04-Sep-1998 #sequence_revision 04-Sep-1998
C;Accession: JC4892
                                                                                                                                                                                            A; Cross-references: GB:U26535; NID:g847787; PIDN:AAA67896.1; PID:g847788
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F;39-157/Domain: calcium-binding #status predicted <CAB>
F;160-191/Domain: EGF homology <EGF>
F;167-254/Domain: complement factor H repeat homology <FH1>
F;259-316/Domain: complement factor H repeat homology <FH2>
F;333-355/Domain: transmembrane #status predicted <TMM>
F;356-372/Domain: intracellular #status predicted <INT>
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A;Residues: 37-43;142-148 <TSU2>
C;Comment: This receptor is involved in the initial adhesive
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93.5%;
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RESULT 4
$22124
L-selectin precursor - bovine
N:Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)
C:Species: Bos primigenius taurus (cattle)
C:Species: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000
C:Accession: $22124
A:Status: preliminary
A:Bosworth, B.T.
Submitted to the EMBL Data Library, October 1991
A:Reference number: $22123
A:Accession: $22124
A:Status: preliminary
A:Mclocule type: mrNA
A:Residues: 1-370 <BOS>
A:Cross references: EMBL:X62882; NID:9515; PIDN:CAA44676.1; PID:9516
A:Walcheck, B; White, M.: Kurk, S.; Kishimoto, T.K.; Jutila, M.A.
Eur. J. Immunol. 22, 469-476, 1992
A:Title: Characterization of the bovine peripheral lymph node homing receptor A:Reference number: A46531; MUID:92164727
A:Accession: A46531
A:Status: preliminary
A:Mclocule type: mrNA
A:Residues: 39-79, 'Q', 81-151, 'K' <WALL>
A:Residues: 39-79, 'Q', 81-151, '
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3.3e-126;
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A; Molecule type: mRNA
A; Residues: 1-372 <WAT>
A; Residues: 1-372 <WAT>
A; Cross-references: GB:D10831; NID:9220801; PIDN:BAA01613.1; PID:9220802
C; Superfamily: L-selectin; C-type lectin homology; complement factor H re
C; Keywords: transmembrane protein
F; 29-155/Domain: C-type lectin homology <LCH>
F; 150-191/Domain: EGF homology <EGF>
F; 197-254/Domain: complement factor H repeat homology <FH1>
F; 259-316/Domain: complement factor H repeat homology <FH2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            L-selectin precursor - rat

N;Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Dec-1993 #sequence_revision 01-Sep-1995 #text_change
C;Accession: S23936
R;Watanabe, T.; Song, Y.; Hirayama, Y.; Tamatani, T.; Kuida, K.
Biochim. Biophys. Acta 1131, 321-324, 1992
Biochim. Biophys. Acta 1131, 321-324, 1992
A;Title: Sequence and expression of a rat cDNA for LECAM-1.
A;Reference number: S23936; MUID:92329548
A;Accession: S23936
A;Status: preliminary
A;Maccession: S23936
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                                                                                                                                                                                                                                                                                           ب
                                                                                                                                                                                                                                                                                                                                                           Match
                                                                                                                                                                                                                                                                         MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60
CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
                                                                                                                    TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                                                   CAPFGNWSSPEPTCRVIQCEPLTEPDLGTMDCNHPLVDFGFSSTCTFSCSEEAELTGEKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
|:|:||||||||||:|||:||:||:||
NRKSKEDCVEIYIKRNKDSGKWNDDACHKAKTALCYTASCKPWSCSGHGQCVEVINNYTC
                                                                                                                                                                                                                                                         MVFPWRCQSAQRGSWSFLKLWIRTLLCCDLLPHHGTHCWTYHYSERSMNWENARKFCKHN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GKKSKR 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MLCPWKCQNAQRGLWNVFKLWVWIMLCCDFFAHHGTDCWTYHYSKRPMPWEKARAFCREN
                                                                                                                                                                                                                                                                                                                           286;
                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                             Conservative
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76.9%;
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                                                                                                                                                                                                                                                                                                                           Score 1653; D
Pred. No. 1.3e
35; Mismatches
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                                                                                                                                                                                                                                                                                                                                                             DB
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                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: EMBL:X17519; NID:g34344
A;Note: this translation is not annotated in GenBank entry HSLEU8, release C;Comment: For an alternative splice form, see PIR:A34015.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Camerini, D.; James, S.P.; Stamenkovic, I.; Seed, B.
Nature 342, 78-82, 1989
A;Title: Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing A;Reference number: S06798; MUID:90044046
A;Status: not compared with conceptual translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C:Species: Homo sapiens (man)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 26-May-2000
C:Accession: S09702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: mRNA
A; Residues: 1-323 <CAM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ρy
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C; Species: Homo sapiens (man)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L-selectin precursor, short splice form - human N;Alternate names: CD62L; leucocyte cell adhesion molecule-1 (LECAM-1, LAM-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    322/Binding site:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301-318/Domain: transmembrane #status predicted <TRM>
319-333/Domain: intracellular #status predicted <INT>
3117,190,245,259/Binding site: carbohydrate (Asn) (covalent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;Genetics:
                                     194
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
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                           NCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHSLGNFSFSSQCAFSCSEGTNLTGIEETT
                                                      NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                             NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                                                                                                                                                                                                                                                                                       MIEPWKCQSTQRDLWNIEKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60
                                                                                                                       NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNYTC
                                                                                                                                                                                                                YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN
                                                                                                                                                                                                                                         YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                                                                                            MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMYTAFSGLAFIIWLARRLKK 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GKKSQERMDDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGASGNWTYLEPICQVIQCMPLAAPDLGTMECSHPLANFSFTSACTFTCSEETDLIGERK
                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                     78.1%;
98.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Ser) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                          Score 1652; DB 1;
Pred. No. 1.4e-115;
1; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                   .4e-115;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 323;
                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #status
                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                  133
                           253
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Query Match
Best Local Similarity

78.0%; 76.1%;

Score 1651; DB 1; Pred. No. 1.9e-115; 2; Mismatches 57;

Length 372;

0;

Gaps

0;

Matches

Conservative

61

YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120 MVFPWRCEGTYWGSRNILKLWVWTLLCCDFLIHHGTHCWTYHYSEKPMNWENARKFCKQN MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60

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F;39-331/Domain: extracellular *status predicted <EXT>
F;160-191/Domain: EGF homology <EGF>
F;197-254/Domain: complement factor H repeat homology <FH1>
F;259-316/Domain: complement factor H repeat homology <FH2>
F;259-316/Domain: transmembrane *status predicted <TMM>
F;332-355/Domain: intracellular *status predicted <TMM>
F;336-372/Domain: intracellular *status predicted <TMM>
F;366-372/Domain: intracellular *status predicted <TMM>
F;366-372/Domain: intracellular *status predicted <TMM>
F;364/Binding site: phosphate (Ser) (covalent) *status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Description: binds with low affinity to oligosaccarides like heparan sulfate and ment of leucocytes to areas of inflammation, and with CD162 mediates neutrophil-neu C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homol C;Keywords: cell adhesion; duplication; glycoprotein; inflammation; phosphoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: protein
A; Residues: 'X', 40, 'X', 42, 'XXX', 46, 'X', 48, 'XXXXXX', 55-56, 'X', 58, 'XXXXXX', 65, 'V', C; Comment: This protein is ubiquitinated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: GB:X14772; NID:g52942; PIDN:CAA32880.1; PID:g52943 A;Note: part of this sequence, including the amino end of the mature protein, R;Siegelman, M.; Bond, M.W.; Gallatin, W.M.; St.John, T.; Smith, H.T.; Fried, Science 231, 823-829, 1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C; Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Title: Cell surface molecule associated with lymphocyte homing A; Reference number: A60906; MUID: 86122900
A; Accession: A60906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-372 <SIE2>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: GB:M36005; NID:g199735; PIDN:AAA39722.1; PID:g199736; R;Siegelman, M.H.; van de Rijn, M.; Weissman, I.L. Science 243, 1165-1172, 1989
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A; Residues: 1-372 <LAS>
A; Cross references: GB: M25324; NID:g198803; PIDN:AAA39431.1;
A; Cross references: GB: M25324; NID:g198803; PIDN:AAA39431.1;
R; Siegelman, M.H.; Cheng, I.C.; Weissman, I.L.; Wakeland, E.E.
Cell 61, 611-622, 1990
A; Title: The mouse lymph node homing receptor is identical wi
A; Reference number: A35102; MUID:90263086
A; Accession: A35102
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A; Residues: 1-372 <SIE1>
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A;Title: Cloning of a lymphocyte homing receptor reveals a A;Reference number: A32375; MUID:89168433
A;Accession: A32375
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ent of leucocytes to areas of inflammation, and with CD162 mediates neutrophil-neutry superfamily: L-selectin; C-type lectin homology; complement factor H repeat homology; superfamily: L-selectin; duplication; glycoprotein; inflammation; phosphoprotein; seywords: cell adhesion; duplication; glycoprotein; inflammation; phosphoprotein; seywords:
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C:Accession: A30359
R:Johnston, G.I.; Cook, R.G.; McEver, R.P.
Cell 56, 1033-1044, 1989
A:Title: Cloning of GMP-140, a granule membrane protein of platelets and endothelium: se
A:Reference number: A30359; MUID:89168432
A;Reference number: A30359; MUID:89168432
A;Rocession: A30459; MUID:89168432

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Alternate names: CD62 antigen; granule membrane
Species: Homo sapiens (man)
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IW-FSALISELVNQKEVAAWTYNYSTKAYSWNNSRVFCRRHFTDLVAIQNKNEIAHLNDV

Matches Query Match Best Local

Similarity

42.7%;

Score 902.5; Pred. No. 1.6e #0; Mismatches

.6e-59;

Length

Gaps

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A; Molecule type: mRNA
A; Residues: 1-723 / E', 725-768 <SAN>
A; Residues: 1-723 / E', 725-768 <SAN>
A; Cross-references: GB:M72332; NID:g193565; PIDN:AAA37712.1; PID:g193566
A; Cross-references: GB:M72332; NID:g193565; PIDN:AAA37712.1; PID:g193566
A; Note: sequence extracted from NCBI backbone (NCBIP:109900)
C; Superfamily: unassigned EGF-related proteins; complement factor H repet C; Reywords: cell adhesion; glycoprotein; phosphohistidine; phosphoprotein; 1-41/Domain: signal sequence #status predicted <SIG>
F; 42-768/Product: P-selectin #status predicted <MAT>
                                                                                                                                                    F:163-194/Domain: EGF homology <EGF>
F:200-257/Domain: complement factor H repeat
F:262-319/Domain: complement factor H repeat
F:324-381/Domain: complement factor H repeat
F:324-381/Domain: complement factor H repeat
F:386-443/Domain: complement factor H repeat
F:448-505/Domain: complement factor H repeat
F:510-567/Domain: complement factor H repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Note: sequence extracted from NCBI backbone (NCBIP:109467) R; Sanders, W.E.; Wilson, R.W.; Ballantyne, C.M.; Beaudet, A. Blood 80, 795-800, 1992
A; Title: Molecular cloning and analysis of in vivo expression A; Reference number: A44899; MUID:92345617
F:642-699/Domain: complement factor H repeat homology < F:710-733/Domain: transmembrane #status predicted <TMN>F:734-768/Domain: intracellular #status predicted <INTN>F:734-768/Domain: intracellular #status predicted <INTN-F:45.54,107,212,347,398,456,467,603,654,661,679/Binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N;Alternate names: CD62; granule membrane protein 140; PADGEM
C;Species: Mus musculus (house mouse)
C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 19-May-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-768 <WEL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R:Weller, A.; Isenmann, S.; Vestweber, D.
J. Biol. Chem. 267, 15176-15183, 1992
A;Title: Cloning of the mouse endothelial
A;Reference number: A42755; MUID:92340571
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                                                                                           F;580-637/Domain: complement factor H repeat homology <FH07>F;642-699/Domain: complement factor H repeat homology <FH08>
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F;386-443/Domain:
F;458-515/Domain:
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A; Residues: 1-646 <STR>
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A;Title: Isolation and characterization of a bovine cDNA encoding a functional homolog A;Reference number: JN0473; MUID:93249394
A;Accession: JN0473
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LASGIWTNSPPQCVAVQCPALKSPEQGSMSCVQSAEAFQHQSSCSFSCEEGFALVGPEVV
                                                   GPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKT 301
                                                                                                                                      CDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTC 241
                                                                                                                                                                                                                                                  KKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCN 181
                                                                                                                                                                                                                                                                                                                                                            TDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNN 121
                                                                                                                                                                                                                                                                                                                                                                                                                                    IWNWR----FQRAVFRTVQLLCFSVLIFEVINQKEVSAWTYHYSNKTYSWNYSRAFCQKYY 64
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                                                                                                      CYPGFYGPECEYVRECGEFDLPQHVHMNCSHPLGNFSFNSHCSFHCAEGYALNGPSELEC
                                                                                                                                                                                                                   KRNNQDCVEIYIKSLSAPGKWNDEPCWKRKRALCYRASCQDMSCSKQGECIETIGNYTCS
                                                                                                                                                                                                                                                                                                                             TDLVAIQNKNEIAYLNETIPYYNSYYWIGIRKINNKWTWVGTKKTLTEEAENWADNEPNN 124
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Pred. No. 5.2e
51; Mismatches
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A;Cross-references: GB:L23088; NID:g349552; PIDN:AAA60325.1; PID:g349553 C;Superfamily: unassigned EGF-related proteins; C-type lectin homology; GF:32-158/Domain: C-type lectin homology <LCH>
F:163-194/Domain: EGF homology <EGF>
F:262-319/Domain: complement factor H repeat homology <FHR>
F:262-319/Domain: complement factor H repeat homology <FH06>
F:580-637/Domain: complement factor H repeat homology <FH07>
F:642-699/Domain: complement factor H repeat homology <FH08>
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A;Title: Cloning, sequence comparison and A;Reference number: I53821; MUID:94333817
A;Accession: I53821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-768 < RES>
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Best Local Similarity
                                                                                          222 FSSQCTFSCPEGYDLNGPSEMQCLASGIWTNNPPQCKAVQCQSLEAPLHGTMDCTHPLAA
                                             FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKL 319
FAYDSSCKFECOPGYRMRGSDILHCTDSGQWSEPLPTCEAI
                                                                                                                         FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
                                                                                                                                                                                        SCQDMSCNSQGERIETIGSYTCSCYPGFYGPECEYVQECGKFDIPQHVLMNCSHPLGDFS
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                                                                                                                                                                                                                                                                                                               TWYGTNKSLTEEAENWGDGEPNNKKNKEDCYEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
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| HCTALGVWTAPTPVCKAL
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May-1998 #sequence_revision 29-May-1998 #text_change 19-May-2000
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53.4%;
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Pred. No. 3.1e-58;
2; Mismatches 89
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E-selectin precursor - human
RyAlternate names: endothelial leukocyte adhesion molecule 1 (ELAM-1); LECAM-2
C;Species: Homo sapiens (man)
C;Date: 27-Jul-1990 #sequence_revision 27-Jul-1990 #text_change 21-Jul-2000
C;Accession: A38615; A35046; A32606
R;Collins, T.; Williams, A.; Johnston, G.I.; Kim, J.; Eddy, R.; Shows, T.; Gimbrone J
J. Biol. Chem. 266, 2466-2473, 1991
A;Title: Structure and chromosomal location of the gene for endothelial-leukocyte adh
A;Reference number: A38615
A;Recession: A38615
A;Recession: A38615
A;Residues: 1-610 <COL>
A;Residues: 1-610 <COL>
A;Residues: 1-610 <COL>
A;Cross references: GB:M61893; GB:M58017; NID:g182043; PIDN:AAA52375.1; PID:g182046
A;Cross references: GB:M61893; GB:M58017; NID:g182043; PIDN:AAA52375.1; PID:g182046
A;Cross references: CB:M61893; GB:M58017; NID:g182043; PIDN:AAA52375.1; PID:g182046
A;Cross references: CB:M61894; AB:M61894; AB:M61894;
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A; Molecule LyPe: MANN
A; Residues: 1-610 (HES)
A; Cross-references: GB:M30640; NID:g182047; PIDN:AAA52377.1; PID:g182048
R; Bevilacqua, M.P.; Stengelin, S.; Gimbrone Jr., M.A.; Seed, B.
Science 243, 1160-1165, 1989
A; Title: Endothelial leukocyte adhesion molecule 1: an inducible receptor for neutrophil A; Reference number: A32606; MUID:89162047
A; Accession: A32606; MUID:89162047
A; Molecule type: mRNA
A; Residues: 1-647, Y', 469-610 (BEV)
A; Cross-references: GB:M24736; NID:g537523; PIDN:AAA52376.1; PID:g537524
C; Genetics:
A; Gene: GDB:SELE: ELAM; ESEL: ELAM1
A; Cross-references: GB:M24736; NID:g537523; PIDN:AAA52376.1; PID:g537524
C; Genetics:
A; Gene: GDB:SELE: ELAM; ESEL: ELAM1
A; Cross-references: GB:M24736; NID:g537523; PIDN:AAA52376.1; PID:g537524
C; Superifmilly: unassigned EGF-related proteins; C-type lectin homology; complement factor
C; Superifmilly: unassigned EGF-related proteins; C-type lectin homology; complement factor
C; Reywords: duplication: glycoprotein; tandem repeat; transmembrane protein
E; 1-21/Domain: signal sequence *status predicted <SIG>F; 2-510/Product: endothelial leukocyte adhesion molecule 1 *status predicted <MAT>
F; 12-138/Domain: Complement factor H repeat homology <FH01>
F; 130-425/Domain: complement factor H repeat homology <FH02>
F; 140-435/Domain: complement factor H repeat homology <FH03>
F; 430-486/Domain: complement factor H repeat homology <FH03>
F; 430-486/Domain: complement factor H repeat homology <FH06>
F; 557-578/Domain: transmembrane *status predicted <TMM>
F; 25,145,160,179,199,203,265,312,332,503,527/Binding site: carbohydrate (Asn) (covalent)
                        endothelial leukocyte adhesion molecule 1 - rabbit C;Species: Oryctolagus cuniculus (domestic rabbit) C;Date: 14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change 1 C;Accession: 146709; 146708
R;Lariqan, J.D.; Tsang, T.C.; Rumberger, J.M.; Burns, D.K.
DNA Cell Biol. 11, 149-162, 1992
A;Title: Characterization of cDNA and genomic sequences encoding A;Reference number: 146708; MUID:92189729
A;Reference number: 146709
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A;Accession: A35046
A;Status: preliminary
A;Molecule type: mRNA
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Molecule type: mRNA
Residues: 1-551 <LAR1>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
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Pred. No. 1.3e-56;
1; Mismatches 93;
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R. Weller, A.; Isenmann, S.; Vestweber, D.
J. Biol. Chem. 267, 15176-15183, 1992
A; Title: Cloning of the mouse endothelial sel
A; Reference number: A42755; MUID:92340571
A; Accession: B42755
A; Status: nucleic acid sequence not shown
A; Molecule type: mRNA
A; Residues: 'MKATAGY', 1-389,391-612 <WEL>
A; Cross-references: GB:M67862; NID:9193107
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A; Introns: 13/1; 143/1; 179/1; 241/1; 303/1; 366/1; 429/1; 488/1; 525/1; 533/2
C; Superfamily: unassigned EGF-related proteins: C-type lectin homology; complem C; Keywords: duplication; glycoprotein; tandem repeat
F; 14-140/Domain: C-type lectin homology <CCHs
F; 182-239/Domain: complement factor H repeat homology <FH1>
F; 244-301/Domain: complement factor H repeat homology <FH2>
F; 306-364/Domain: complement factor H repeat homology <FH3>
F; 432-486/Domain: complement factor H repeat homology <FH5>
F; 432-486/Domain: complement factor H repeat homo
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Eur. J. Biochem. 206, 401-411, 1992
A;Title: Murine endothelial leukocyte-adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C:Species: Mus musculus (house mouse)
C:Date: 04-Mar-1993 #sequence_revision 31-Dec-2000
C:Accession: S23174; B42755
                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-612 <BEC>
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A; Residues: 1-307, 'T', 309-327, 'A; Cross-references: GB: M91004;
                                                                                                                                                                                                                                                                                                                                                              A; Cross-references: GB: M80778; NID: g193014;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Accession: S23174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Reference number:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B
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A; Experimental source: endothelial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E-selectin precursor -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              261 QGSAPWNTTCTFDCEEGFTLLGARSLQCTSSGSWDNEKPTCK
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nes 146; Conserv
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NID:g165004; PIDN:AAA31243.1;
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Pred. No. 1.4e-56;
1; Mismatches 95;
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from NCBI backbone

(NCBIP:109470)

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A; Molecule type: mRNA
A; Residues: 1-485 <NGU>
A; Residues: 1-485 <NGU>
A; Cross-references: GB:L12039; NID:g402913; PIDN:AAA02991.1; PID:g402914
C; Superfamily: unassigned EGF-related proteins; C-type lectin homology; c
F;13-139/Domain: C-type lectin homology <LCH>
F;181-237/Domain: complement factor H repeat homology <FH1>
F;242-299/Domain: complement factor H repeat homology <FH3>
F;304-362/Domain: complement factor H repeat homology <FH4>
F;367-421/Domain: complement factor H repeat homology <FH4>
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$36772
R.; Squen, M.; Strubel, N.A.; Bischoff, J.
Rattle: A role for sialyl Lewis-X/A glycoconjugates in capillary morphogenesis.
A; Reference number: $36772; MUID:93382537
R.; Accession: $36772
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F;1-21/Domain: signal sequence #status predicted <SIG>F;1-21/Bomain: c-type lectin homology <LCH>F;22-612/Product: p-selectin #status predicted <WAT>F;21-318/Domain: EGF homology <EGF>F;143-174/Domain: complement factor H repeat homology <FH1>F;243-30/Domain: complement factor H repeat homology <FH3>F;305-363/Domain: complement factor H repeat homology <FH4>F;305-363/Domain: complement factor H repeat homology <FH5>F;431-485/Domain: complement factor H repeat homology <FH5>F;494-548/Domain: complement factor H repeat homology <FH5>F;494-548/Domain:
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                               39 WTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
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                                                                                                                                       148;
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                                                                                                                             Score 849.5; DB 2;
Pred. No. 8.6e-56;
0; Mismatches 90;
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Pred. No. 3e-56;
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               YNSSCSISCAEGYLPSSTEATRCMSSGEWSTPLPKCNVVKCDALSNLDNGVVNCSPNHGS
                                                                            FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
                                                                                                                    TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                     ACNPTPCGSHGECVETINNYTCQCHPGFKGLKCEQVVTCPAQKHPEHGHLVC-NPLGKFT
                                                                                                                                                         TWIGTNKSLTKEATNWAPGEPNNKQSDEDCVEIYIKREKDSGKWNDEKCTKQKLALCYKA
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Search completed: October 13, 2001, 02:55:06 Job time: 4208 sec

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Maximum Match 100%
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HIG_DROME
LFC_CARRO
CR1_HUMAN
PGCA_CAMOUSE
FCE2_HUMAN
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Pfam; PF00008; EGF; 1.
Pfam; PF00009; lectin_c; 1.
Pfam; PF00084; sushi; 2.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00022; EGF_1; 1.
PROSITE; PS001186; EGF_2; 1.
PROSITE; PS006115; C_TYPE_LECTIN_1; 1.
PROSITE; PS0041; C_TYPE_LECTIN_2; 1.
Cell adhesion; Transmembrane; Glycoprotein; EGF-1; Selectin; Signal; Sushi; Repeat; 3D-structure.
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Bajorath J., Aruffo A.;
"A template for generation and comparison of three-dimensional selectin models.";
Biochem. Biophys. Res. Commun. 216:1018-1023(1995).
-!- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHER!
OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content use by non-profit institutions are nowed. Usage by and profit institutions are nowed.
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IL; X17519; CAB43357.1; A
IL; X16070; CAB43203.1; A
IL; X16070; CAB43203.1; A
IL; M32407; AAB60700.1; J
IL; M32407; AAB60700.1; J
IL; M32407; AAB60700.1; J
IL; M32409; AAB60700.1; J
IL; M32410; AAB60700.1; J
IL; M32410; AAB60700.1; J
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IL; M32413; AAB60700.1; J
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SUBCELULAR LOCATION: TYDE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
DATABASE: NAME-PROW; NOTE-CD guide CD62L entry;
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd62l.htm".
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01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last sequence update)
11-NOV-1997 (Rel. 35, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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InterPro; IPR000364; -.

InterPro; IPR002396; -.

Pfam; PF00008; EGF; 1.

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PRINTS; PR00343; SELECTIN.

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-I- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHERENCE OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
                                                                                                                                                                                                                                                                                                                         CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRANSMEM
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                                                                                                        Local Similarity 98.
nes 367; Conservative
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SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
                           MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60
  MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN
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2 X SUSHI (SCR) REPEA
SUSHI 1.
SUSHI 2.
BY SIMILARITY.
BY GILCNAC.
N-LINKED (GILCNAC.
N-LINKED 
                                                                                                   Score 2085; DB 1
Pred. No. 1e-162;
2; Mismatches
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CYTOPLASMIC (POTENTIAL)
C-TYPE LECTIN (SHORT FO
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(POTENTIAL).
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MBL outstation -
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60
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RESULT
LEM1_PO
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                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Ew the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entitles requires a license agreement (See http://www.isb-sor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LEM1_PONPY STANDARD; PRT; 372 AA.

095235;

01-NOV-1997 (Rel. 35, Created)

01-NOV-1997 (Rel. 35, Last sequence update)

01-NOV-1997 (Rel. 35, Last annotation update)

L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      _PONPY
                                                                                                                                                                                                                                                                     +++
                                                                                                                                                                                                                                                                                                                                              Tsurushita N.; Submitted (NOV-1996) to the
                                                                                                                                                                                                                                                                                                                                                                                                                    Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                         EMBL; U73729;
HSSP; P14151;
                                                                                   InterPro;
                                                                                                InterPro;
                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM
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                                                                                                                                                                                                                                          mitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.

FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADH
OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
VENULES IN PERIPHERAL LYMPH NODES.

SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINIS/LECAMS.

SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
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                                                                   IPR000436; -.; IPR000561; -.; IPR001304; -.
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                                                                                                                                                                                              restrictions
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InterPro;
InterPro;

IPR002396; -.

PF00008;

PF00084;

lectin_c; 1.
sushi; 2. EGF;

PRINTS; PR00343; SELECTIN. PROSITE; PS00022; EGF_1; 1.

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RESULT 4
LEM1_MACMU
ID LEM1_M
AC Q95198
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Best Local Similarity
Matches 363; Conserv
                LEM1_MACMU Q95198;
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DOMAIN
DOMAIN
DOMAIN
DOMAIN
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DISULFID
CARBOHYD
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Selectin;
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PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
Cell adhesion; Transmembrane; Glycopr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DOMAIN
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                                                                                              GKKSKKSMDDPY
                                                                                                                       GKKSKRSMNDPY
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                                                                                                                                                                                                                                                                                                                                                     TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sushi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97.48;
97.68;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             POTENTIAL:

CYTOPLASMIC (POTENTIAL).

C-TYPE LECTIN (SHORT FORM).

EGF-LIKE.

2 X SUSHI (SCR) REPEATS.

SUSHI 2.

BY SIMILARITY.

BY SIMILARIT
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Pred.
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BY SIMILARITY.
L-SELECTIN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                core 2062; Dred. No. 7.5e
                            372
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.5e-161;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 372;
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DISULFID
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TRANSMEM
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PROPEP
CHAIN
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Budman J.
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A Budman J.I., Fu H., Johnson C.E., Thakur A.B., Berg E.L.,
A Tsurushita N.;
A Tsurushita N.;
Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.
C -!- FUNCTION: CELL SURRACE ADHESION PROTEIN. MEDIATE THE AD.
C -!- FUNCTION: TELL SURRACE ADHESION PROTEIN. MEDIATE THE AD.
C -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
C -!- SUBCELLULAR CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
C -!- SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
C -!- SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE: PS00022; EGF_1; 1.

PROSITE: PS01186; EGF_2; 1.

PROSITE: PS00615; C_TYPE_LECTIN_1; 1.

PROSITE: PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion: Transmembrane: Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam; PF00008; EGF; 1.
Pfam; PF00059; lectin_c; 1.
Pfam; PF00084; sushi; 2.
PRINTS; PR00343; SELECTIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; U73730; AAB18246.1; HSSP; P14151; 1KJB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
NCBI_TaxID=9544;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last sequence update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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               L-SELECTIN.

EXTRACELLULAR (POTENTIAL)

COTTOPLIASMIC (POTEN
C-TYPE LECTIN (SHO
EGF-LIKE.
2 X SUSHI (SCR) RE
SUSHI 1.

SUSHI 1.

SUSHI 2.

BY SIMILARITY.

BY 
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BY SIMILARITY.
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           ننن
(POTENTIAL).
(POTENTIAL).
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                             TSURUSHITA N., FU H., Berg E.L.;

I "PCR cloning of the cDNA encoding baboon L-selectin.";

I Gene 181:219-220(1996).

C GENE STATE AND PROTEIN. MEDIATE THE A
OF LYMPHOCYTES TO ENDOTHELLAL CELLS OF HIGH ENDOTHELLA
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C OF SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
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SEQUENCE
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SEQUENCE FROM N.A.
MEDLINE-97128794; PubMed-8973334;
Tsurushita N., Fu H., Berg E.L.;
Tsurushita n. of the cDNA encoding
                                                                                                                                                                                                                                                                                   LEM1_PAPHA STANDARD; PRT; 372 AA.

Q28768;
01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LEM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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Mammalia; Eutheria;
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NCBI_TaxID=9557;
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 try is copyright. It is produced through
Institute of Bioinformatics and the El
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Chordata; Craniata; Vertebrata; Euteleostomi;
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Pfam; PF00059; lectin_c; 1.
Pfam; PF00084; Sushi; 2.
PF10084; SELECTIN.
PROSITE; PS00043; SELECTIN.
PROSITE; PS01186; EGF 1; 1.
PROSITE; PS01615; C_TYPE_LECTIN_1; 1
PROSITE; PS0061; C_TYPE_LECTIN_2; 1
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CYTOPLASMIC (POTENTIAL CYTOPLASMIC)
CYTYPE LECTIN (SHORT EGF-LIKE.

2 X SUSHI (SCR) REPEAUSHI 1.

BY SIMILARITY.

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Pfam; PF00008; EGF; 1.

Pfam; PF00008; EGF; 1.

Pfam; PF000059; lectin_c; 1.

Pfam; PF00084; sushi; 2.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00126; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS01515; C_TYPE_LECTIN_1; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein; EGI
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HSSP; P14151;
InterPro; IPRO
                                                                                                                                                                                                                                           use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to licensealch----
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"Bovine L-selectin: a peripheral lymphocyte homing receptor.";
Peri Immunol. Immunopathol. 37:201-215 (1993).

-i- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHERION FOR LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
                                                                                                                                         InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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01-FEB-1996 (Rel. 33, Last sequence update)
01-FEB-1996 (Rel. 33, Last sequence update)
01-FEB-1996 (Rel. 33, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAMI) (CD62L).
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                                                                                                                                                                                                                                                                                 s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                          VENULES IN PERIPHERAL LYMPH NODES.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECARS,
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DC
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
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PRINTS; PR00343; SELECTIN.

PROSITE; PS00022; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS01615; C_TYPE_LECTIN_1; 1.

PROSITE; PS00641; C_TYPE_LECTIN_2; 1.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE-92329548; PubMed-1378303; Wartanabe T., Song Y., Hirayama Y., Tamatani T., Kuida K., "Sequence and expression of a rat cDNA for LECAM-1."; Sequence and expression of a 131.321-324(1992).
Biochim. Biophys. Acta 1131.321-324(1992).
-I- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro;
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SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEI SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
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; P14151; 1KJB.
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       N.A.
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C-TYPE LECTIN (SHORT FORM)
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P18337;

P18337;

O1-NOV-1990 (Rel. 16, Created)

O1-NOV-1990 (Rel. 33, Last sequence update)

O1-FEB-1996 (Rel. 33, Last annotation update)

L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LY-22) (LYMPHOCYTE SURFACE MEL-14 ANTIGEN)

(LEUKOCYTE-ENDOTHELLAL CELL ADHESION MOLECULE 1) (LECAM1) (CD62L).
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SEQUENCE
SEQUENCE FROM N.A.
MEDLINE-89168433; PubMed-2647302;
MEDLINE-89168433; PubMed-2647302;
Lasky L.A., Singer M.S., Yednock
Rodriguez H., Nguyen T., Stachel
"Cloning of a lymphocyte homing r
                                                                                                                                   MEDLINE=90263086; PubMed=1693096; Siegelman M.H., Cheng I.C., Welssman I "The mouse lymph node homing receptor lymphocyte cell surface marker Ly-22: endothelial binding,"; Cell 61:611-622(1990).
                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.

MEDLINE-89162048; PubMed=2646713;

Siegelman M.H., van de Rijn M., Weissman I.L.

"Mouse lymph node homing receptor cDNA clone revealing tandem interaction domains.";

Science 243:1165-1172(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SELL OR LNHR OR LY-22.
Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                         EQUENCE FROM
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372 /
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Rodentia;
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Pred. No. 1.5e
35; Mismatches
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3B88AE0F1E4D191A CRC64;
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Sciurognathi; Muridae;
                           S., Ro
                       Rosen
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r is identical with t
: role of the EGF dom
                                                Dowbenko D.,
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Pfam; PF00008; EGF; 1.

Pfam; PF00059; lectin_c; 1.

Pfam; PF00084; Sushi 2.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00012; EGF 1; 1.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS01186; EGF 2; 1.

PROSITE; PS01186; EGF 2; 1.
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PIR; ?
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                                                                                                                                                                                                                                          Selectin;
                                                                                                                                                                                                                                                      Cell adhesion;
                                                                                                                                                                                                                                                                                                                                                                                   HSSP; P14151; 11
MGD; MGI:98279;
                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE-91169529; PubMed-2004776;
Dowbenko D.J., Diep A., Taylor B.A., Lu
"Characterization of the murine homing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genomics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          correspondence between protein domains Genomics 9:270-277(1991).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: CELL SUFFACE ADHESION PROTEIN. MEDIATE THOOP LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHE VENULES. IN PERIPHERAL LYMPH NODES.

SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LOCAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
                                                                                                                                                                                                                                                                                                                                                                                                                                               ;; X14772; CAA32880.1; -.
;; M36005; AAA39722.1; -.
;; M36058; AAA39723.1; -.
;; M2524; -; NOT_ANNOTATED
;; M64549; AAA75651.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                         A32375
                                                                                                                                                                                                                                                                                                                                                                                                                             M64440;
M64545;
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                                                                                                                                                                                                                                                                                                                                                                                                                  M64548;
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                                                                                                                                                                                                                                         Signal;
                                                                                                                                                                                                                                                                                                                                                                                                   49; AAA75651.1; 340; AAA75651.1; 345; AAA75651.1; 348; AAA75651.1; 35; A32375.
    1KJB.
79; Sell.
                                                                                                                                                                                                                                                  Transmembrane;
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                                                                                                                                                                                                                                          Sushi;
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EXTRACELLULAR (POTENTIAL POTENTIAL CYTOPLASMIC (POTENTIAL).

C-TYPE LECTIN (SHORT FOR
  BY SIMILA
                                                                                                                                    SUSHI
                                                                                                                                                        EGF-LIKE
                                                                                                                                                                                                                                                   Glycoprotein;
                              Y SIMILARITY.
Y SIMILARITY
                                                                                                                                              X SUSHI (SCR)
 (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lusis A.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (See http://www.isb-sib
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 usis A.J., Lasky L.A.; receptor gene reveals and coding exons.";
                                                                                                                                                                  (SHORT FORM).
                                                                                                                                                                                               (POTENTIAL).
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(POTENTIAL).
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Best Local S
Matches 283
Burns S.A., Neufeld E.J., Donady J.J.;

Submitted (JUL-1994) to the EMBL/GenBank/DDBJ databases.

-i- FUNCTION: CA(2+)-DEPRODENT RECEPTOR FOR MYELOID CELLS TH

TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES

INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS.

LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

-i- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

-i- SIMILARITY: TO OTHER SELECTIN FAMILY DOMAIN.

-i- SIMILARITY: CONTAINS 1 CGTPE LECTIN FAMILY DOMAIN.

-i- SIMILARITY: CONTAINS 8 SUSHI (SCR) REPEATS.
                                                                                                                                                                                                                                                                                                                                                                                          P98109;
P98109;
P98109;
P98109;
P181096 (Rel. 33, Created)
P181096 (Rel. 33, Last sequence update)
P1996 (Rel. 33, Last sequence update)
P1996 (Rel. 40, Last annotation update)
P1997 (Recursor (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM)
P1998109;
P19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SHEEP 9
                                                                                                                                                                                                                                                                                            Eukaryota, Metazoa, Chordata, Crania
Mammalia, Eutheria, Cetartiodactyla,
Bovidae, Caprinae, Ovis.
NCBI_TaxID=9940;
                                                                                                                                                                                                                                     TISSUE-Heart;
                                                                                                                                                                                                                                                                                                                                                                               Ovis aries (Sheep).
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CARBOHYD
CONFLICT
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                                                                                                                                                                                                                                                             SEQUENCE
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actyla; Ruminantia;
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Pfam; PF00008; EGF; 1.

Pfam; PF000059; lectin_c; 1.

Pfam; PF00084; sushi; 8.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00022; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS01615; C_TYPE_LECTIN_1; 1.

PROSITE; PS0041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein; EG
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InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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MEDLINE-89168432; PubMed-2466574;

Johnston G.I., Cook R.G., McEver R.P.;

"Cloning of GMP-140, a granule membrane endothelium: sequence similarity to protable adhesion and inflammation.";
                                                           Furie
                                                                              STRUCTURE BY NMR OF 160-199.
MEDLINE-97057176; PubMed-8901515;
Freedman S.J., Sanford D.G., Bach
                                                                                                                                                      MEDIINE-93266599; PubMed-7684381;
Fujimoto T., Stroud E., Whatley R.E., Prescott
Laposata M., McEver R.P.;
"P-selectin is acylated with palmitic acid and
cysteine 766 through a thioester linkage.";
J. Biol. Chem. 268:11394-11400(1993).
                    "Structure and selectin.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SELP OR GMRP.
Homo sapiens (Human).
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HCTALGVWTAPTPVCKAI 322
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REMBL; M60234; AAA35910.1; JOINED.
REMBL; M60217; AAA35910.1; JOINED.
REMBL; M60218; AAA35910.1; JOINED.
REMBL; M60222; AAA35910.1; JOINED.
REMBL; M60223; AAA35910.1; JOINED.
REMBL; M60223; AAA35910.1; JOINED.
REMBL; M60225; AAA35910.1; JOINED.
REMBL; M60225; AAA35910.1; JOINED.
REMBL; M60226; AAA35910.1; JOINED.
REMBL; M60227; AAA35910.1; JOINED.
REMBL; M60229; AAA35910.1; JOINED.
REMBL; M60229; AAA35910.1; JOINED.
REMBL; M60223; A
3D-structure
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- FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BINDS TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES THE INVERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

- I- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

- I- TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL ACTIVATION BY AGONISTS, P-SELECTIN IS TRANSPORTED RAPIDLY TO THE PARTY CHERACON.
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3D-STRUCTURE MODELING OF 42-161.
MEDLINE-94093388; PubMed=7505680;
Bajorath J., Stenkamp R., Aruffo A.;
"Knowledge-based model building of proteins: concepts
"In the state of the stat
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SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 9 SUSHI (SCR) REPEATS.
DATABASE: NAME-PROW; NOTE-CD guide CD62P entry;
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd62p.htm".
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TE=98334547; PubMed=9668170;

nn S.M., Ricard S., Nicaud V., Mallet C., Evans A.,

ets J.B., Arveiler D., Luc G., Cambien F.;

selectin gene is highly polymorphic: reduced frequency allele carriers in patients with myocardial infarction.

ol. Genet, 7:1277-1284(1998).
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/FTId=VAR_004195.
FBC407BA2579F6EB CRC64;
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Q1-APR-1993 (Rel. 25, Created)
Q1-APR-1993 (Rel. 25, Last sequence update)
Q1-CCT-2000 (Rel. 40, Last annotation update)
Q1-CCT-2000 (Rel. 40, Last annotation update)
P-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM)
(CD62P) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 3) (LECAM3).
SELP OR GRMP.
Mus musculus (Mouse).
Mus musculus (Mouse).
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                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=92345617; PubMed=1379089;
Sanders W.E. Jr., Wilson R.W., Ballant
"Molecular cloning and analysis of in
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Mammalia; Eutheria;
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"Cloning o
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MEDLINE-92340571; PubMed-1378846;
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loning of the mouse endothelial selectins. I
d P-selectin is inducible by tumor necrosis
Biol. Chem. 267:15176-15183(1992).
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                                                                                                                           INDUCTION: BY TUMOR NECROSIS FACTOR ALPHA.

SIMILARITY: TO OTHER SELECTINS/LECAMS.

SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.

SIMILARITY: CONTAINS 8 SUSHI (SCR) REPEATS; MOUSE P-LECTIN LACKS
THE HUMAN SUSHI-2 EQUIVALENT.
                                                                                                                                                                                                                                                          FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BINDS TO CARBOHYDRAYES ON NEUTROPHILS AND MONOCYTES. MEDIATES THE INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X. SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL
                                                                                                                                                                                                                              ACTIVATION BY AGONISTS, P-SELECTIN IS THE CELL SURFACE.
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Rodentia;
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Sciurognathi; Muridae;
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Interr.,

Pfam; pr00008; EGF; 1.

Pfam; pr00059; lectin_c; 1.

Pfam; pr00084; sushi; 8.

Pfam; pr00084; sushi; 8.

Pfam; pr00084; sushi; 8.

PRINTS; PR00343; SELECTIN.

R PROSITE; PS01186; EGF_2; 1.

R PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS00615; C_TYPE_LECTIN_2; 1.

PROSITE; PS00615; C_TYPE_LECTIN_2; 1.

PROSITE; PS00615; C_TYPE_LECTIN_2; 1.

PROSITE; PS00615; Repeat; Lipoprotein; EGF-1

POTENTIAL.

POTENTIAL.
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InterPro; IPR000436; -
InterPro; IPR000561; -
InterPro; IPR001304; -
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EMBL; M72332; AAA37712.
PIR; A42755; A42755
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BY SIMILARITY.
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                             (PROBABLE).
    CRC64;
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(POTENTIAL).
(POTENTIAL).
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RESULT
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the Euro
use by
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"Isolation and characterization of a boyine cDNA encoding a functional homolog of human P-selectin."

Biochem. Biophys. Res. Commun. 192:338-344(1993).

-!- FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BIN TO CARBOHYDRATES ON NEUTROPHILS AND MONCOYTES. MEDILATES THE INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

-!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

-!- TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL ACTIVATION BY AGONISTS, P-SELECTIN IS TRANSPORTED RAPIDLY TO THE POPL. SIDDER ACONISTS, P-SELECTIN IS TRANSPORTED RAPIDLY TO
                                  InterPro;
InterPro;
                                                                                                                                                              This
              InterPro; IPR(
Pfam; PF00008;
                                                                EMBL; L12041; AAA30743.1;
HSSP; P16109; 1FSB.
                                                                                                       use by non-profit instituendified and this statement entities requires a license
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
P-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140)
(CD62P) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECUI
                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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Mammalia; Eutheria;
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                                                                                                                                                       THE CELL SURFACE.

SIMILARITY: TO OTHER SELECTINS/LECAMS.

SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

SIMILARITY: CONTAINS 1 EGG-LIKE DOMAIN.

SIMILARITY: CONTAINS 6 SUSHI (SCR) REPEATS; BOVINE
THE HUMAN SUSHI-3, -4 AND -7 EQUIVALENTS.
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                                                                                                                                        European
                                                                                                                       SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
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                      ; IPR000436; -.; IPR000561; -.; IPR001304; -.; IPR002396; -.
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Cetartiodactyla; Ruminantia;
                                                                                                   agreement (See http://www.isb-sib.ch/announce/
                                                                                                                 is not removed.
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minantia; Pecora; Bovoidea
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les 155; Conserv
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PROSITE; PS00022; EGF_1; 1.
PROSITE; PS01186; EGF_2; 1.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
Cell adhesion; Transmembrane; Glycoprotein;
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BY SIMILARITY
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6 X SUSHI (SCR) REPEATS.
SUSHI 1.
SUSHI 2.
SUSHI 3.
SUSHI 4.
SUSHI 5.
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C-TYPE LECTIN (SHORT FO
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EXTRACELLULAR (POTENTIAL).
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CRC64;
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THE WELL RESERVED TO THE PROPERTY OF THE PROPE
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                           Pfam; PF00059; lectin_c; 1.

Pfam; PF00084; sushi; 8.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00022; EGF-1; 1.

PROSITE; PS00186; EGF-2; 1.

PROSITE; PS00186; C_TYPE_LECTIN_2; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
                                                                                                                                                                                                       HSSP; P16109; 1FSB.
InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LEM3_RAT STANDARD; FRI, P98106;
P98106;
P98106;
P98106;
O1-FEB-1996 (Rel. 33, Created)
O1-FEB-1996 (Rel. 33, Last sequence update)
O1-GCT-2000 (Rel. 40, Last annotation update)
P-SCIECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM)
P-SCARN (FURNCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 3) (LECAM3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RAT
                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES THE INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

-!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

-!- TISSUE SPECIFICITY: EXPRESSED IN ALL TISSUES EXAMINED: SPLEEN,

-!- LUNG, BRAIN, LIVER, HEART, KIDNEY, THYMUS, SMALL INTESTINE.

-!- INDUCTION: ACUTE INFLAMATION (PROBABLY).

-!- SIMILARITY: CONTAINS 1 CGT-LIKE DOMAIN.

-!- SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.

-!- SIMILARITY: CONTAINS 8 SUSHI (SCR) REPEATS; RAT P-LECTIN LACKS THE HUMAN SUSHI-2 EQUIVALENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Cloning, sequence comparison encoding rat P-selectin."; Gene 145:251-255(1994).
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MEDLINE-94333817; PubMed-7520013;
                                                                                                                                                                                                                                                                                                                       or send an email to license@isb-sib.ch).
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                EMBL; L23088; AAA60325.1;
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; Signal; Sushi; 1 41 41 768 42 709
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Rodentia;
EXTRACELLULAR (POTENTIAL)
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                                                                    EGF-like
                                                    Palmitate.
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of the
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                                                                      FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKL 319
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8 x SUSHI
SUSHI 1.
SUSHI 2.
SUSHI 3.
SUSHI 4.
SUSHI 5.
SUSHI 5.
SUSHI 6.
SUSHI 7.
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39 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW
FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
                                                                                                                                                                                                                                                                                                                              TWYGTIKKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                            SCQDMSCNSQGERIETIGSYTCSCYPGFYGPECEYVQECGKFDIPQHVLMNCSHPLGDFS
                                                                                                                                                                                 SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS
                                                                                                                                                                                                                                                                                         TWVGTNKTLTAEAENWADNEPNNKRNNQDCVEIYIKSNSAPGKWNDEPCFKRKRALCYTA
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BY SIM
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No. 1.1e-64;
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2; Mismatches
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C-TYPE LECTIN (SHORT FORM).
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IGNAL (PROBABLE).
F1316 CRC64;
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LEM2_H
   MEDLINE=99134508; PubMed=9933738;
Ye S.Q., Usher D., Virgil D., Zha
"A PstI polymorphism detects the
                                                                                                                                                                                                                                                                                                                                                                                   Graves B.J., Crowther R.L., Chandran C., Rumberger J.M., Li S., Huang K.-S., Presky D.H., Familletti P.C., Wolitzky B.A., Burns D.K., "Insight into E-selectin/ligand interaction from the crystal structure and mutagenesis of the lec/EGF domains.", Nature 367:532-538(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Collins T., Williams A., Johnston G. Gimbrone M.A. Jr., Bevilacqua M.P., "Structure and chromosomal location leukocyte adhesion molecule 1.", J. Biol. Chem. 266:2466-2473(1991).
                                                                                                          VARIANT
                                                                                                                                                           MEDLINE=95179107; PubMed=7533025;
Wenzel K., Fellx S., Kleber F. X., Brachold R.,
Schulte K.L., Glaser C., Rohde K., Baumann G.,
"E-selectin polymorphism and atherosclerosis: a
Hum. Mol. Genet. 3:1935-1937(1994).
                                                                                                                                                                                                                                                                                         VARIANT ARG-149.
MEDLINE=95179107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=94150646;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X-RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS)
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"Modelling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-90175359; PubMed=1689848;
MEDLINE-90175359; PubMed=1689848; PubMed=16898848; PubMed=16898848; PubMed=16898848; PubMed=16898848; PubMed=16898848; PubMed=16898848; PubMed=16898888; PubMed=16898888; PubMed=1689888; PubMed=1689888; PubMed=1689888; PubMed=16898888; PubMed=16898888; PubMed=16898
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [5]
3D-STRUCTURE MODELING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Phillips M.L.,
Hakomori S., P
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MEDLINE=91115870; PubMed=1703529;
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P16581; p16111;
01-APR-1990 (Rel. 14, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
01-OCT 2000 (Rel. 40, Last annotation update)
E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ELAM-1 mediates cell adhesion
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lobb R
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p. Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lett.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OR ELAM1.
                                                                                                          ARG-149
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250:1130-1132(1990).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=7509040;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pubmed=7681016;
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      nang L.Q.,
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   Yochim S.E., of serine-128
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, Speer A.;
an association
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                             Gupta
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InterFro; Lenve-
Pfam; pF00008; EGF; 1.

R Pfam; pF00059; lectin_c; 1.

R Pfam; pF00084; sushi; 6.

R PRINTS; PR00343; SELECTIN.

R PROSITE; PS00022; EGF_1; 1.

R PROSITE; PS01186; EGF_2; 1.

R PROSITE; PS0186; C_TYPE_LECTIN_1; 1.

PROSITE; PS00615; C_TYPE_LECTIN_2; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

PROSITE; PS50041; C_TYPE_LECTIN_1; 1.
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EMBL; M61893; AAA52375.1; J
EMBL; M61895; AAA52375.1; J
EMBL; M61887; AAA52375.1; J
EMBL; M61888; AAA52375.1; J
EMBL; M61890; AAA52375.1; J
EMBL; M61891; AAA52375.1; J
EMBL; M61892; AAA52375.1; J
EMBL; M61892; AAA52375.1; J
EMBL; M61892; AAA52375.1; J
EMBL; M61892; AAA52376.1; -
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InterPro; IPR001304;
InterPro; IPR002396;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CD 62E gene
J. Biomed. So
-!- FUNCTION
                                                                                                                                                    SIGNAL
                                                                                                                                                                                                                                                                                             InterPro; IPR000436;
                                                                                                                                                                                                                                                                                                                                             A32606;
A35046;
                                                                                                                                                                                                                                                                                                               A38615; A38615.
1ESL; 31-AUG-94
1KJA; 03-APR-96
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SUSHI 1.
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C-TYPE LECTIN (SHORT FORM).
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EXTRACELLULAR (POTENTIAL).
POTENTIAL.
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                   0 G + G V H
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                                                                           (SCR) REPEATS
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                                                                                                                                                          3D-structure
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Best Local S
Matches 145
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_RABIT
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                                                                               TEM2_RABIT STANDARD; PRT; 551 AA.

P27113;

01-AUG-1992 (Rel. 23, Created)

01-AUG-1992 (Rel. 23, Last sequence update)

01-NOV-1997 (Rel. 35, Last annotation update)

E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1)

(ELAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 2) (LECAM2)

(CD62E).
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SEQUENCE
                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                    Oryctolagus
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145; Conser
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610
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                                   cuniculus (Rabbit).
Metazoa; Chordata; (
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S -> R (ASSOCIATED V
CAD).
/FTId-VAR_004191.
H -> Y (IN REF. 2).
W; 7D43E3C0D1229229
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BY
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                                   Craniata;
                    Leporidae;
                                     Vertebrata; Euteleostomi;
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.6e-63;
                    Oryctolagus
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     InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
Pfam; PF000008; EGF; 1.
Pfam; PF00059; Lectin_c; 1
Pfam; PF00084; sushi; 5.
PRINTS; PR00343; SELECTIN.
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PROSITE; PS01186; EGF_2; 1.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; M91004; AAA31243.1;
EMBL; M91005; AAA31244.1;
HSSP; P16581; 1KJA.
InterPro; IPR000436; -.
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SEQUENCE FROM
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     Repeat
5 X SUSHI (SCR) REPEATS.
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BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                         E-SELECTIN.

EXTRACELLULAR (POTENTIAL).

POTENTIAL.

CYTOPLASMIC (POTENTIAL).

C-TYPE LECTIN (SHORT FORM).

EGF-LIKE.
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sequences encoding rabbit
functional interactions with
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IN (SHORT FORM).
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Best Local Similarity 51.8
Matches 146; Conservative
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CARBOHYD
CONFLICT
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551 AA;
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N-LINKED (GLCNAC. .) (POT

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Maximum DB seq length: 2000000000
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Perfect score:
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SPTREMBL_16:*

SP_archea:*

Sp_bacteria
Sp_bacteria
Sp_bunan:
Sp_human:
Sp_human:
Sp_human:
Sp_inver'
Sp_inhc'
Sp_mhc'
Sp_mhc'
Sp_orr'
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10: Sp_ph'
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                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Gapop 10.0 , Gapext 0.5
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2116
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    sp_plant:*
    sp_rodent:*
    sp_unclassified:*
    sp_vertebrate:*
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sp_bacteria:*
sp_fung1:*
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ALIGNMENTS

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                                                                                                              InterPro; IPRO0036; ...
InterPro; IPRO0036; ...
InterPro; IPRO01304; ...
InterPro; IPR001304; ...
InterPro; IPR002396; ...
Pfam; PF00008; EGF; 1.
Pfam; PF00005; lectin_c; 1.
Pfam; PF00084; Sushi; 2.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
PROSITE; PS00614; C_TYPE_LECTIN_2; 1.
PROSITE; PS00022; EGF_1; UNKNOWN_1.
PROSITE; PS001186; EGF_2; 1.
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Best Local Similarity
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Q28629;
01-NOV-1996 (TrEMBLrel. 01, C
01-NOV-1996 (TrEMBLrel. 01, L
01-MAR-2001 (TrEMBLrel. 16, L
                                                                        SMART; SM
EGF-like
       CHAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-KIDNEY, CORTEX;
Qlan J., Marks R.M.;
Submitted (MAY-1995) to the EMBL/GenBank/DDBJ
EMBL; U26535; AAA67896.1; -.
HSSP; P14151; 1KJB.
                                                       SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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SM00032; CCP; 1.
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                                                  Glycoprotein; Lectin; Signal, 38 POTENTIAL.
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                                                                  Pfam; PF00008; EGF; 1.
Pfam; PF00059; lectin_c; 1.
Pfam; PF00084; Sushi; 2.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1
PROSITE; PS50041; C_TYPE_LECTIN_2; 1
PROSITE; PS50041; C_TYPE_LECTIN_2; 1
PROSITE; PS00128; EGF_1; UNKNOWN_1.
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Q63762;
01-NOV-1996 (Tremblrel. 01, Cr
01-NOV-1996 (Tremblrel. 10, La
01-MAR-2001 (Tremblrel. 16, La
LYMPHOCYTE MEMBRANE PROTEIN A.
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Best Local
  EGF-like domain; G
SEQUENCE 372 AA;
                                                                                                                                                                                                                                                                                                                                                 STRAIN=SPRAGUE-DAWLEY;
MEDLINE=95569821; PubMed=7543874;
Sackstein R., Meng L., Xu X.M., Chin Y.H.;
"Evidence of post-transcriptional regulation expression in rat lymphoid cells.";
Immunology 85:198-204(1995).
EMBL; S79523; AAC60710.2; -.
EMBL; S79523; AAC60710.2; -.
                                                   SMART;
                                                                                                                                                                                                                                                         InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
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                                                SM00032; CCP; 1
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A; 42471 MW;
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7DFD125610DD6E4A CRC64;
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Matches
Query Match 43.:
Best Local Similarity 50.0
Matches 158; Conservative
                                                                                                     Pfam; PF00008; EGF; 1.
Pfam; PF00008; lectin_G; 1.
Pfam; PF00084; sushi; 6.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1
PROSITE; PS00615; C_TYPE_LECTIN_2; 1
PROSITE; PS00022; EGF_1; UNKNOWN_1.
PROSITE; PS01186; EGF_2; 1.
SMART; SM00032; CCC; 1.
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O1-mAY-1999 (TrEMBLrel. 10, Created)
O1-mAY-1999 (TrEMBLrel. 10, Last sequence update)
O1-mAY-1999 (TrEMBLrel. 16, Last annotation update)
D1-MAR-2001 (TrEMBLrel. 16, Last annotation update)
D1780M13.1.3 (SELECTIN P (GRANULE MEMBRANE PROTEIN 140
CD62, GMP140)) (ISOFORM 3) (FRAGMENT).
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InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                  43.18;
  47;
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Score 911; DB 4; Pred. No. 3e-81; 7; Mismatches 107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. 6.56
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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                                                                                                               35CD4BFADE61D724 CRC64;
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                                          Length 616;
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                                                                                                                                                   Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                   InterPro; IPRO00561; -.
InterPro; IPRO00561; -.
InterPro; IPRO00561; -.
InterPro; IPRO00396; -.
InterPro; IPRO0396; -.
Pfam; PF00008; EGF; 1.
Pfam; PF000084; Sushi; 8.
Pfam; PF000084; Sushi; 8.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00022; EGF_1; UNKNOWN_1.
PROSITE; PS00032; CCP; 1.
SMART; SM00032; CCP; 1.
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EMBL; AL022146; CAA18142.
HSSP; P16109; 1KJD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human).
Eukaryota; Metazoa; C
Mammalia; Eutheria; P
                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                               EGF-like domain; Glycoprotein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                QNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKED 127
                                           ORFORVVFGISOLLCFSALISELTNOKEVAAWTYHYSTKAYSWNISRKYCONRYTDLVAI 70
                                                                         QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSG
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                                                                                                                                157;
                                                                                                                                                                                                                                          740
                                                                                                                                Conservative
                                                                                                                                                                                                                                            AA;
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Primates;
                                                                                                                                                                                                                                          81095 MW;
                                                                                                                                                     43.0%;
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2.1;
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                                                                                                                              Score 909; DB
Pred. No. 5.9e
18; Mismatches
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                                                                                                                                                                                                                                            3B5F70A45B1A3CD4 CRC64;
                                                                                                                                                     DB 4;
.9e-81;
                                                                                                                                   107;
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Best Local
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                                                                                                                                                                                                                                             InterPro; IPRO00436; -.
InterPro; IPRO00561; -.
InterPro; IPRO00561; -.
InterPro; IPRO01304; -.
InterPro; IPRO01304; -.
InterPro; IPRO01396; -.
Pfam; PF00008; EGF; 1.
Pfam; PF000059; lectin_C; 1.
Pfam; PF000084; SELECTIN_8.
PFINYS; PR00343; SELECTIN_1; 1.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00021; EGF_1; UNKNOWN_1.
PROSITE; PS00186; EGF_2; 1.
SMARR; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                        Howden P.;
Submitted (NOV-1998) t
EMBL; AL022146; CAA183
HSSP; P16109; IKJD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
DJ780M13.1.2 (SELECTIN P (GRANULE MEMERANE PROTEIN CD62, GMP140)) (ISOFORM 2) (FRAGMENT).
                                                                                                                                                                                                                           EGF-like domain; Glycoprotein NON_TER 740 740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               095508;
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 131 CVEIYIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY
                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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           CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
                                             QRFQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI
                                                                                                            QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              :|: |:|:|:
VWTAPAPVCKAI 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IWSNPSPICQKL 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TNKPPQCLAAQCPPLKIPERGNMTCLHSAKAFQHQSSCSFSCEEGFALVGPEVVQCTASG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GPECEYVRECGELELPQHVLMNCSHPLGNFSFNSQCSFHCTDGYQVNGPSKLECLASGIW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CVETYIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQDWSCSGHGECVEIINNHTCNCDVGYY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     al Similarity
158; Conserv
                                                                                                                                                                                                              740 AA; 81389 MW;
                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                       1998) to the CAA18143.1;
                                                                                                                                              42.4%; Score 898; DB 4; I
50.6%; Pred. No. 7.2e-80;
vative 45; Mismatches 109;
                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata;
Catarrhini; Hominidae
                                                                                                                                                                                                              1D2E35E6D93745CE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hominidae;
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                                                                                                                                                                       Length 740;
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190
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPRO00561;
InterPro; IPRO0304;
InterPro; IPRO0304;
InterPro; IPRO03396;
InterPro; IPRO03396;
InterPro; IPRO03396;
InterPro; IPRO0539;
InterPro; IPRO0059;
InterPro; IPRO0059;
InterPro; IPRO0059;
InterPro; IPRO00615;
IPRO00615;
IPRO00616;
I
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manning A.M., Sanders W.E. Jr., Kukielka G.L., Dore M., Rosenbloom C.L., Hawkins H.L., Michael L.H., Entman M.L., Beaudet A.L., Anderson D.C.; Submitted (MAR-1995) to the EMBL/GenBank/DDBJ databases. EMBL; M88170; AAA63789.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAR-2001 (TERMETE). U1, Last sequence update) CELL ADHESION MOLECULE PRECURSOR (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q28290 PRELIMINARY;
Q28290;
Q1-NOV-1996 (TrEMBLrel. 01,
Q1-NOV-1996 (TrEMBLrel. 01,
Q1-MAR-2001 (TrEMBLrel. 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIGNAL
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                                                                VIPYYNSYYWIGIRKINDKWTWVGTKKPLTEEAENWAENEPUNKKNNQDCVEIYIKSLSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        r; sm00032; CCP; 1.
adhesion; EGF-like domain; Glycoprotein;
                     PLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQ
                                                                                                                                                                                  TLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKD
                                                                                                                                                                                                                                                                            KLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEK
                                                                                                                                                                                                                                                    KLLCFSVLIFELIKQKEVAGWTYNYSTKAYSWNYSRIFCQKHYTDLVAIQNKKEIAYLND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            754 AA;
                                                                                                                                                                                                                                                                                                                                               Conservative
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754
82303 MW;
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                                                                                                                                                                                                                                                                                                                                          Score 884; DB
Pred. No. 1.7e-
46; Mismatches
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Last sequence
Last annument
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; F0438EEAA521E773 CRC64;
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.7e-78;
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DFDLPQHVLMNCSHPLGNFSFNSECSFYCTEGYELNGPSKLECLASGTWTNKPPRCVATQ 246

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                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                 Matches
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PROSITE; PS00615; C_TYPE_LECTIN_1;
PROSITE; PS50041; C_TYPE_LECTIN_2;
PROSITE; PS00022; EGF_1; UNKNOWN_1
PROSITE; PS01186; EGF_2; 1.
SMART; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "TNF-alpha, IL-4, and IFN-gamma regulate differential expression of and E-selectin expression by porcine aortic endothelial cells."; J. Immunol. 164:3309-3315(2000).

EMBL; L39075; AAA79007.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sus scrofa (Pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammaalia; Eutheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1996 (TREMBLIEL 01, 01-NOV-1996 (TREMBLIEL 01, 01-MAR-2001 (TREMBLIEL 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=20171534; PubMed=10706724;
Stocker C.J., Sugars K.L., Harari O.A.,
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Submitted (OC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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QRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNK
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                                                                                           IYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYYGPQ
                                                                                                                                                                                   AEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVE
                                                                                                                                                                                                                                                      QRVSFRTVQLLFFNALISDLMNQKGVAAWTYNYSTSAYSWNTSRVFCQRYFTDLVAIQNK
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                                                                                                                                                           KETAYLNDVIPYYSSYYWIGMRKINNKWTWVGTKKTLTQEAENWAKNEPNNESNNQDCVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PF00008; EGF; 1.
PF00059; lectin_c; 1.
PF00084; sushi; 6.
                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                42
646 AA;
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71127 MW;
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Last sequence update)
Last annotation updat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             P-SELECTIN.
; 3863F4AFE09F0BB6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                     Score 876.5; DB 6; Pred. No. 8e-78;
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Best Local S
Matches 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF00008; EGF; 1.

Pfam; PF00008; Sectin_G; 1.

Pfam; PF00084; Sushi; 6.

PRINTS; PR00343; SELECTIN

PROSITE; PS00615; C_TYPE_LECTIN_1; 1

PROSITE; PS50041; C_TYPE_LECTIN_2; 1

PROSITE; PS50042; EGF_1; UNKNOWN_1.

PROSITE; PS001186; EGF_2; 1.

SMART; SM00032; CCP; 1.
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(1).

SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

VORA D.K., Fang Z., Liva S

Voratio M.C., Begliner J.I.

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InterPro; IPR001304; -.
InterPro; IPR002396; -.
Pfam; PF00008; FCP.
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Q28657;
Q1-NOV-1996
Q1-NOV-1996
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Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EGF-like domain; G
SEQUENCE 649 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; U39446; AAA81385.1; HSSP; P16109; 1FSB.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9986;
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                       239 TTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGK
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                                                                                                                                                                                                                                                   IFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRECRDNY
                                                                       TCSCYPGFYGPECEYVREWASLDLPQHVHMNCSHPLGNFSFNSHCSFHCADGYALNGPSE
                                                                                             TCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEE
                                                                                                                                                             PNNKRNNQDCVETYIKSLSAPGKWNDEPCWKRKRALCYRASCQDMSCSKQGECIETIGNY
                                                                                                                                                                                                                                                                                                                                              IWNWR----FQRAVFRTVQLLCFSVLIFEVINQKEVSAWTYHYSNKTYSWNYSRAFCQKYY
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                                                                                                                                                                                                                                                                                                                                                                                                                                           155;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Glycoprotein;
A; 71755 MW;
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Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              40.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 860.5; DB Pred. No. 3e-76;
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ECCD8C847B84BC31 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                           104;
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Best Local :
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                                                                                                                                                                                   01-NOV-1996 (TremBLrel. 01, 01-MAR-2001 (TremBLrel. 16, E-SELECTIN.
                                                                                                                                                                                                                                    Q28982;
Q28982;
Q1-NOV-1996
SEQUENCE FROM N.A.
MEDLINE=97075911; PubMed=8918234;
MEDLINE=97075911; PubMed=8918234;
Contamedia V.,
                                                                                                                         Sus scrofa (Pig).
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                       NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE-ENDOTHELIUM;
Zheng L., Shi Y., Wu H., Zhang G.;
Zheng L., Shi Y., Wu H., Zhang G.;
"Cloning and sequencing of beagle E-selectin g
comparison with other species.";
Submitted (JUL-2000) to the EMBL/GenBank/DDBJ
EMBL; AF287257; AAG10039.1; -
Lectin; Selectin.
SEQUENCE 609 AA; 66073 MW; 41E62D1F4D23881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Canis familiaris (Dog).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
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01-MAR-2001 (TrEMBLrel.
01-MAR-2001 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                               263
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01-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                            FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTPTSCSGHGECVETVNNYTCKCHPGFRGLRCEQVVTCQAQEAPEHGSLVCTHPLGTFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TWIGTQKLLTEEAKNWAPGEPNNKQNDEDCVEIYIKRDKDSGKWNDERCDKKKLALCYTA 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    YNSSCFVSCDKGYLPSSTEATQCTSTGEWSASPPACNVVECSALTNPCHGVMDCLQSSGN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WSYNASTEAMTFDEASTYCOQRYTHLVAIQNQEEIKYLNSMFSYTPTYYWIGIRKVNKKW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     145;
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                                                                                                                    Chordata; Craniata; Vertebrata; Cetartiodactyla; Suina; Suidae;
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16,
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Pred. No. 3.1e
13; Mismatches
                                                                                                                                                                                                                                                                                                 PRT;
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                 Natarajan
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3.1e-76;
hes 91;
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                                                                                                                           SuS
                                                                                                                                             Euteleostomi;
                 Anrather
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Q9ES77
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DT Q
DT Q
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Best Local Similarity 36.1
Matches 159; Conservative
                                                                            Q9ES77
Q9ES77;
Q9ES77;
01-MAR-2001 (TrEMBLrel. 16, C
01-MAR-2001 (TrEMBLrel. 16, L
01-MAR-2001 (TrEMBLrel. 16, L
polydom protein precursor.
SEQUENCE FROM N.A. STRAIN=C3H/HENSIC;
                                        Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eucheria; Rodentia;
                                 NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRINTS; PR00343; SELECTIN.

PROSITE; PS00615; C_TYPE_LECTIN_1;
PROSITE; PS50041; C_TYPE_LECTIN_2;
PROSITE; PS00022; EGF_1; UNKNOWN_1.

PROSITE; PS01186; EGF_2; 1.

SMART; SM00032; CCP; 1.
                                                                                                                                                                                                                         345
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                                                                                                                                                                                                                                                                      331 YNPLF----
                                                                                                                                                                                                                                                                                                                   278
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                                                                                                                                                                                                                                                                                                                                                                219
                                                                                                                                                                                                                                                                                                                                                                                                                                    143
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                                                                                                                                                                                                FMTSASFLLWLLKRLRKRAKN
                                                                                                                                                                                                                    -FSGLAFIIWLARRLKKGKKS
                                                                                                                                                                                                                                         --PVFGAVCTFACPEGWMLNGSVALTCGATGHWSGMLPTCEAPAESKIPLAMGLAAGGVS
                                                                                                                                                                                                                                                                                                                                   YKSTCHFTCAEGFGLQGPAQIECTAQGQWTQQAPVCKAVKCPAVSQPKNGLVKFTHSPTG
                                                                                                                                                                                                                                                                                                                                                     FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSH-PLA
                                                                                                                                                                                                                                                                                     EFTYKSSCAFSCEEGFELRGSAQLACTSQGQWTQEVPSCQVVQCSSLEVPREINMSCSGE
                                                                                                                                                                                                                                                                                                            SFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ-----
                                                                                                                                                                                                                                                                                                                                                                                TCAFECKEGFELIGPEHLQCTSSGSWDGKKPTCKAVTCDTVGHPQNGDVSCNHSSIGEFA
                                                                                                                                                                                                                                                                                                                                                                                                                                          ACTPTSCSGHGECIETINSSTCQCYPGFRGLQCEQVVECDALENPVNGVVTCPQSLPWNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TWIGTKKALTPEATNWAPGEPNNKOSNEDCVEIYIKRDKDSGKWNDERCSKKKLALCYTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WSYSASTETWTFDDASAYCQORYTHLVAIQNHAEIEYLNSTFNYSASYYWIGIRKINGTW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW
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IPR000561; -.
IPR001304; -.
IPR002396; -.
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                                                                                      Last sequence update)
Last annotation update)
                                                                                                              Created)
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                                        Craniata; Vert
Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 815.5; DB 6; Pred. No. 5.7e-72; 6; Mismatches 109;
                                                                                                                                       PRT;
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97DC5D70BF115944 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                         porcine
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                                           Vertebrata;
thi; Muridae;
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                                                      Euteleostomi;
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                                                                                                                                                                                                                                                                 IPVAVMVTA----
                                         Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gene.";
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Q9VYR4
AC Q9VYR4
AC Q9VYR4
AC Q9VYR4
DT 01-MAX
DT 01-MAY
DT 01-MAY
DT 01-MAY
DT 02-MAR
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GN GN GN
GN MADLIN
RA ADAT11
RA BAILGW
RA GLOGGE
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RA Adams M.D., Celniker S.E., Holt R.A., Hoskins R.A., Galle R.F.,
RA Adamstides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA Adamstides P.G., Scherer S.E., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Haril J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktarglu L., Beasley E.M.,
RA Beson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Dolcher A., Jean P., Ferraz C., Ferriar S., Fleischmann W.,
RA Dolcher A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
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Q9VYR4;
01-MAY-2000
01-MAY-2000
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01-MAR-2001 (TrEMBLrel.
FW GENE PRODUCT.
FW OR CG1500.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1787
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EMBL; AF206329; AAG32160.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE-20196006; PubMed-10731132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN-BERKELEY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gilges
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28.4%;
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16,
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Last annotation update)
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Pred. No. 3.
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nes 94;
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asley E.M.,
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RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Molson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Nelson D.R., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Sylrskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Sylrskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Williams S.M., Woodage T., Weinstock G.M., Weissenbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Rubin G.M., Venter J.C.;
"The genome sequence of Drosophila melanogaster.";
RT TENEZ, A. 24, 2125 (2000).
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Best Local S
Matches 86
                                                                                                                                           P91658
P91658;
01-MAY-1997 (101-MAY-1997 (101-MAR-2001 (10
                           Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Musc
Ephydroidea; Drosophilidae; Drosophila.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS00615; C_TYPE_LECTIN_1; PROSITE; PS50041; C_TYPE_LECTIN_2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           496
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATYVCEPGYVLVGEAIISCGLGGEWSSKTPSCRFVD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RLDGTWSGSSPTCKYV-DCGSL--PEL----KFGSIHMSEERTSFGVVATYSCHENY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SM00032;
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25.5%;
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                                                                                                                                                                                                     Created)
Last sequence update)
Last annotation updat
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Pred. No. 1.3e-15;
0; Mismatches 122
                                                                                                                                                                                                                                                                                                                            PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -----GECVEII-----NNHTC
                                                                                                                                                                                                                                                                                                                            974
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                                                                                                                                                                                                        update)
                                                               Brachycera; Muscomorpha
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Best Local Similarity
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-InterPro; IPRO01304;
-InterPro; IPRO01304;
-InterPro; IPRO0059; lectin_c; 1.
Pfam; PF00084; sushi; 10.
ProsITE; PS00615; C_TYPE_LECTIN_1; UIPROSITE; PS00615; C_TYPE_LECTIN_2; 1
PROSITE; PS50041; C_TYPE_LECTIN_2; 1
SMART; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                 Q18849;
Q18849;
01-NOV-1996
MEDLINE-94150718; PubMed-7906398; Wilson R., Ainscough R., Anderson K., Baynes C., Berks M., Wilson R., Ainscough R., Anderson K., Copsey T., Cooper J., Coulson A Bonfield J., Burton J., Connell M., Copsey T., Cooper J., Coulson A. Craxton M., Dear S., Du Z., Durbin R., Favello A., Fulton L., Gardner A., Green P., Hawkins T., Hillier L., Jier M., Johnston L., Jones M., Kershaw J., Kirsten J., Laister N., Latreille P., Lightning J., Lloyd C., Mcmurray A., Mortimore B., O'Callaghan M., Parsons. J., Percy C., Rifken L., Roopra A., Saunders D., Shownkeen
                                                                                                                                                    Wilkinson
Submitted
                                                                                                                                                                                                                                                                                                   01-NOV-1996 (TrEMBLrel. 01, 01-NOV-1996 (TrEMBLrel. 01, 01-MAR-2001 (TrEMBLrel. 16,
                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                           Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                          C54G4.4
                                                                                                                                                                                                                                                                                      C54G4.4 PROTEIN
                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                         Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Leshko-Lindsay L., Corces V.
Development 0:0-0(0).
EMBL; U70770; AAB36703.1; -.
HSSP; P02749; 1QUB.
FlyBase; FBgn0001083; fw.
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SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CYDFHIT-KGESFDKAQAICKQTGGHLVHDFRGATSSYILSELERRKSELKPQLVWIGAQ 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLD 320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRS-----YYWIGIR 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TLIGNENRTCAMDG-WSGKQPECLVDWCPDPQPIAGGDV---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLDGTWSGSSPTCKYV-DCGSL--PEL----KFGSIHMSEERTSFGVVATYSCHENY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCN--LDYLHFICQHSPLSCGSPDAQQNTTVMGKKFTLGEKIQYTCPKGHSLLGQTEREC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACHKLKAALCYTASCQPWSCSGH------
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KIGGI----WTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGK---WNDD 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            85;
                                                                                                                                                    (JUN-1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    974 AA;
                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
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                                                                                                                                                                                                                            Nematoda; Chromadorea; Rhabditida; Rhabditoidea; cinae; Caenorhabditis.
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                                                                       Coulson A.,
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Pfam; PF00084; sushi; 4.
PROSITE; PS50041; C_TYPE_LECTIN_2;
SMART; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nature 368:32-38(1994).
EMBL; Z75533; CAA99822.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Watson A., Weinstock L., Wilkinson-Sproat J., Wohldman P.; "2.2 Mb of contiguous nucleotide sequence from chromosome III of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR000436;
 644
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                            TICESSGIWSNPSPIC 316
                                                                                     CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
LMCGDRGEWQPATPFC
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                                                                                                                                                                              GVGEATKVTFSSHSYAIGTLCFYSCDSGYDLHGIRQRECAENGRWTGSIPNCYRKSCGAV
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                                                          CQSDGIWSGSEPTCELVDC---GRPPL-IANGRVDVESSTFESAANYTCHQGFRLIGPES
                                                                                                                     RQWK - - - -
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                                                                                                                                                                                                                                                                       ---GEPNNKKNKEDCVEI-----YIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCS 166
                                                                                                                                                                                                                                                                                                                                  TDLVAIQNKAEIEYLEKTLPFS---RSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGD-- 116
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Pred. No. 1.3e-14;
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Search completed: October 13, 2001, 03:02:16 Job time: 424 sec

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Perfect score:
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seq
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1: /cgnl_9/gcgdata/geneseq/geneseqn/Na1980.DAT:*
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length: 2000000000
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Listing first 45 summaries
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Gapop 10.0 , Gapext 1.0
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Copyright (c) 1993 - 2000
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result

99.2 2262 13 AAQ24987 94.2 2350 17 AAT14723	8 2251.8 99.7 2259 12 AAQ12118 Sequent 9 2241.6 99.2 2260 13 AAQ23623 Human	99.9 2259 19 AAV19012 99.8 2259 14 AAQ43154	99.9 2259 16 AATO5869 99.9 2259 17 AAT30003	2259 14 AAQ44243 Hu 2259 16 AAQ92802 Hu	100.0 2259 20 AAV08321 Hu	% Result Query No. Score Match Length DB ID Descrip
Sequence encoding Human Leu8 antigen	Sequence encoding Human lymphocyte h	Homo sapiens lymph Human Lymphocyte H	LHR	HuLHR DNA. Homo s Human LHR cDNA. H	Human lymphocyte h	Description

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ALIGNMENTS

AAV08321;

AAV08321 standard; DNA;

2259

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RESULT
AAVO8321
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XX AAVC
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XX US58
XX Homc
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31-OCT-1991;
06-MAY-1993;
10-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lymphocyte homing receptor; LHR; lymphocyte cell-surface glycoprotein; lymphocyte binding; endothelium; graft rejection; inflammation; therapy; arthritis; autoimmune disease; lymphoma metastasis; lymphocyte accumulation; human; ss.
WPI; 1999-034122/03.
                                                                                    Lasky LA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US5840844-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-AUG-1995;
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                                                                                                                                                                (GETH ) GENENTECH INC. (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-NOV-1998
                                                                                    Rosen SD,
                                                                                                                                                                                                                                                                                            89US-0315015.
91US-0786149.
93US-0059029.
95US-0513278.
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                                                                                    Singer MS,
                                                                                         Stachel SE;
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P-PSDB; AAW73264.

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Query
Best L
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661 ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTGTG
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                                                              CTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATC
                                                                                                                          atgcaggcaaatggaacgatgacgcctgccacaaactaaaggcagccctctgttacacag
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Pred. No. 0;
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. from primary cells. A cDNA clone encoding LHR was iso
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DB; AAR76506.
 ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTGTG
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2.2 kb clone (sequence given in AAT05869) showing 83% DNA sequence homology to the murine LHR gene (AAT05870) was isolated. The LHR are used to construct LHR-IGG hybrids used to target therapeutic moieties to lymphoid tissue.
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                                              cttcttgccagccctggtcatgcagtggccatggagaatgtgtagaaatcatcaataatc
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EXXECT EXXEST TO SOLUTION OF THE PROPERTY OF T
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a single
                                                                                                                             Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc.) The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region facilitates recovery, improves aqueous solubility and removes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to Ig constant region - useful for diagnosis and treatment e.g. of inflammation
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Query Match Best Local 9

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence is that encoding a human lymphocyte homing receptor (LHR) which may be used in the construction of a chimeric molecule comprising an LHR fused at its C terminus to the N terminus of an immunoglobulin constant region. This can be used for the prevention of lymphocyte attachment to endothelial cells. Such a method may be used for preventing organ or graft rejection, for treating inflammatory disorders, e.g. rhemmatoid arthritis or other autoimmune diseases, for controlling lymphoma metastasis and for treating conditions in which there is an accumulation of treating conditions in which there is an accumulation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Prevention of lymphocyte attachment to endothelial cells - using chimeric molecule comprising lymphocyte homing receptor and
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                         AGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAG
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DNA sequence was obtd. by screening an oligo dT primed 0 cDNA library derived from human peripheral blood lympl A obtd. from primary cells, with a 2.2 kb EcoRI insert o

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inflammation; rheumatoid arthritis; lympho
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CC murine Mel 14 antigen cDNA clone. 12 positive plaques were isolated CC and those with the largest EcoRI insert were sequenced. The 2.2 kb CC clone encodes an open reading frame of 372 amino acids. The human CC LHR is 83 percent homologous with the murine LHR sequence and CC contains regions encoding a carbohydrate binding domain, an EGF-like CC domain, a complement binding domain and a transmembrane domain. CC cells transformed by the hLHR DNA are used to produce LHR (which CC mediates binding of lymphocytes to the endothelium of lymphoid CC tissue). LHR or its variants are useful as reagents for assaying CC LHR or anti-LHR antibodies, to purify the antibodies, as immunogens, CC (to prevent graft/organ rejection; to treat inflammation (such as CC rheumatoid arthritis or other autoimmune diseases); for control of CC lymphocyte metastasis, and to treat conditions associated with accumulation of lymphocytes). Derivs. and variants of LHR may be CC produced having modified properties, e.g. increased activity, longer CC plasma half-life, reduced side effects and better aq. solubility.
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Sequence 2260 BP; 636 A; 518 C; 487 G; 619 T; 0 other;

0;

Que Bes Mat	Query M Best Lo Matches	atch 99.2%; Score 2241.6; DB 13; Length 2260; cal Similarity 99.8%; Pred. No. 0; 2244; Conservative 0; Mismatches 4; Indels 0: Ga	
Qy		GAATTCCAGTGTGCTGGCTTCCTCACCTGCAGCACAGCA	
Db		gaattccagtgtgctggcttcctcacctgcagcacagca	
Qy	61	GAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGGACCAA 120	0
DЬ	61	gagacccttgtgctaagtcaagaggctcaatgggctgcagaagaactagagaaggaccaa 12	0
Qy	121	GCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGGACTTATGGAACATCT 180	0
Ъ	121	gcaaagccatgatatttccatggaaatgtcagagcacccagagggacttatggaacatct 180	0
Qy	181	TCAAGTTGTGGGGGTGGACAATGCTCTGTTGTTGTATTTCCTGGCACATCATGGAACCTACT 240	0
<u>р</u>	181	tcaagttgtggggtggacaatgctctgttgtgatttcctggcacatcatggaacctact 240	0
Qy	241	GCTGGACTTACCATTATTCTGAAAAACCCCATGAACTGGCAAAGGGGCTAGAAGATTCTGCC 300	0
Db	241	gctggacttaccattattctgaaaaacccatgaactggcaaagggctagaagattctgcc 300	0
Qy	301	GAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGAAATTGAGTATCTGGAGA 360	J
Db	301	gagacaattacacagatttagttgccatacaaaacaaggcggaaattgagtatctggaga 360	0
Qy	361	AGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGGAATAT 420	J
Db	361	agactotgocottcagtcgttcttactactggataggaatccgggaagataggaggaatat 420	J
Οу	421	GGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGAAGAACTGGGGAGATGGTG 480	_
DЬ	421	ggacgtgggtgggaaccaaccaaatctctcactgaagaagcagagaactggggagatggtg 480	_
Qγ	481	AGCCCAACAACAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAG 540	_
Ъ	481	agcccaacaacaagaagaacaagcaggactgcgtggagatctatatccaagagaaacaaag 540	_
Qy	541	ATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAG 600	_
Db	541	atgcaggcaaatggaacgatgacgcctgccacaaactaaaggcagccctctgttacacag 600	
Qy	601	CTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATC 660	-
Db	601	cttcttgccagcctggtcatgcagtggccatggagaatgtgtgtagaaatcatcaataatc 660	
Qγ	661	ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCCAGTGTCAGCTTGTGATTCAGTGTG 720	
Вb	661	acacctgcaactgtgatgtggggtactatgggccccagtgtcagcttgtgattcagtgtg 720	

GTGAAGTAATGGGGTCCTGCTCAAGTTGÅAAGAGTCCTATTTGCACTG 18 	TTTCTAACTCCAG ttctaactccag	1741 1741	Qу
TGGAGGTACACTCTTATAGAAAAGTTCAAAAAGTCTACGCTCTCCTTTC 174	TTCTGTATACTGT	1681 1681	Оy
\TATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTC 168 	AAATTTGATACAT	1621 1621	Фр
TTTCAATTCAGT	TCTTGTTTTCAC	1561 1561	Qy Db
AAGO aagg	GACCATAAGGGAA gaccataagggaa	1501 1501	Db Qy
GTGTTTATACAGCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAA 1 	CCCAGCCCACAGO	1441 1441	Qу
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ACCTCCTAC	TTGTGTGGTGGCA	1321 1321	Db dy
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GAAATCCAAGAGAAGTATGAATGACCCATATTAAATCGCCCTTGGTG 1 	TAAAAAAAGGCA <i>F</i> taaaaaaaggcaa	1201 1201	Qy Db
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ATTTGTGAATCATCTGGAATCT 	AGAAGAAAACCA acaagaaaacca	1021	Db Qy
ACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAATTV 	GCTTCAGCTTT gcttcagcttt	96	Qy Db
CTATCAGCACCAGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCA 96	AGTGTGAGCCTCT	90:	Db 03
ACCATTTGGAAACTGGTCATCTCCAGAACCAACCTGTCAAGTGATTC 9 	1 AAACCACCTGTC	84	Qy Db
CAGTGTGCCTTCAG cagtgtgccttcag	1 GCTTCAGCTCAC	78 78	Qу
3GCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCTTTGGAAACTTCA 78 	1 AGCCTTTGGAGG 1 agcctttggagg	72 72	Db Db
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    binding partner protein and immunoglobulin chain, diagnosis and therapy
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                                                                                                                                        ATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAG
                                                                                                                                                                 agcccaacaacaagaagaacaaggaggactgcgtggagatctatatcaagagaaacaaag
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                            TTCTTTCTAACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCA
                                                   gtcttctgtatactgtggaggtacactcttatagaaagttcaaaaagtctacgctctcct
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                                                                                        TGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTC 1677
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                                                                                tgcaaatttgatacatatgtgaatatggactcagttttcttgcagatcaaatttcacgtc
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25-FEB-1988;
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13-JUL-1990;
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                                                                     HOSPITAL
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                                                                                            92US-0983647.
88US-0160416.
89US-0379076.
90US-0553759.
93US-0139273.
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50..1207
/*tag= a
1079..1514
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                                         В;
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S; Leu9; T-lymphocyte;
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Query Match
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Matches 2179
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cloning of cDNA encoding cell surface antigen of diagnostic and therapeutic proteins
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CCCCTTTGGAAACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA
                               gtttgtgattcagtgtgagcctttggaggccccagagctgggtaccatggactgtactca
                                                 GCTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA
                                                                                                                  AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCCAGTGTCA
                                                                                                                                                                                        AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT
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Pred. No. 0;
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Example 14; Column 69-72; 75pp; English

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13-JUL-1989;
23-MAR-1990;
13-JUL-1990;
                            Isolated nu useful for
                                                                     WPI;
                    infections or
                                                          P-PSDB;
                                                                                                                                                                      01-DEC-1992;
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                                                                                                           (GEHO)
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                                                                                                                                                                                                                                                                                                                         amyloidosis;
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lmmune disorder; infection;
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                                                         2000-586382/55.
)B; AAY96138.
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                                                                                                           GEN
             nucleic acid molecule encoding the CD19 cell surface antigen, or immunodiagnosis and immunotherapy of immune-mediated ns or disorders, e.g. asthma, immune-complex disease, parasiti
                                                                                       ı,
                                                                                                           HOSPITAL CORP.
                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                             92US-0983647.

88US-0160416.

89US-0379076.

90US-0498809.

90US-0553759.
                                                                                       Seed
                                                                                                                                                                                          98US-0181612
                                                                                                                                                                                                                                                            Location/Qualifiers 50..1207
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\mathbb{Z} \times \mathbb{S} \times 
                                                                                                                                                                                                                                                                                                                             the antigen by adhesion to (panning on) an antibody-coated substrate such as a culture dish. CSA nucleic acids isolated by the method of the invention, and the proteins they encode, are useful for immunodiagnostic and immunotherapeutic applications, including the CC diagnosis and treatment of immune-mediated infections, diseases, and CC disorders in animals, including humans. These disorders include CC distrates in animals, including humans. These disorders include CC asthma, immune-complex disease, amyloidosis, parasitic diseases or multiple sclerosis. The ability to interfere with the binding of CC Leu8-T-cells to antigen presenting cells, or the ability to cause CC such binding to occur on surfaces other than lymphocyte cells, can be useful in diagnostics and therapy. The level of activated Leu8-T-cells relative to resting Leu8+ cells could serve as a measure of immune response to a particular antigen. Modification of the specificity of the extracellular domain of Leu8, which mediates concludes could serve to regulate the homing potential of resting T cells. Soluble forms of Leu8 could act as antiinflammatory agents by reducing lymphocyte
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              Sequence
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              2350
              B₽;
              679 A;
520 C;
490 G;
661
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agccctctgttacacagcttcttgccagccctggtcatgcagtggccatggagaatgtgt
             AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT
                                                                     TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC
                                                                                                                            GAACTGGGGAGATGGTGAGCCCAACAACAACAAGAAGAACAAGAGGAGGACTGCGTGGAGATCTA
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                                                                                                             gaactggggagatggtgagcccaacaacaagaagaacaaggaggactgcgtggagatcta
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                                                      tatcaagagaaacaaagatgcaggcaaatggaacgatgacgcctgccacaaactaaaggc
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           GATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAA 1721
                                                                                                                              ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA
                                                                                               TTAAATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAA
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gatcaaatttcacgtcgtcttctgtatactgtggaggtacactcttatagaaagttcaaa
                                           acacttctaaatgaagtgcaaatttgatacatatgtgaatatggactcagttttcttgca
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New CD53 cell surface antigen and DNA encoding immuno-therapy and diagnosis of haematopoietic
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DB; AAR20815.
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g receptor; antigen-presenting cells;
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Query Match
Best Local Similarity
Matches 2178; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human T cell library using the rapid immunoselection cloning method (see e.g. AAQ21164 for description of method). The shorter insert (see AAQ2250) lacks 436 internal residues (i.e. nucleotides 1079 to 1514 of the longer insert). RNA blot hybridisation revealed a major transcript of 2.4kb in peripheral blood mononuclear cells, tonsillar B cells and the Jurkat and HSB-2 leukaemic T cell lines. A minor transcript of 2.0kb was present in peripheral blood mononuclear cells and the Jurkat and HSB-2 leukaemic T cell lines. The protein encoded by the larger insert is closely related to the murine Mel-14 homing receptor.
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GCTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA
                                                                         gtttgtgattcagtgtgagcctttggaggccccagagctgggtaccatggactgtactca
                                                                                                                                                                           AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGGTACTATGGGCCCCAGTGTCA
                                                                                                                                                                                                                                                      AGCCCTCTGTTACACACCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT 643
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                                                                                                                                                        agaaatcatcaataattacacctgcaactgtgatgtggggtactatgggccccagtgtca
                                                                                                                                                                                                                                                                                                                                  TATCAAGAGAAACAAAGATGCAGGCAAATGGAAACGATGACGCCTGCCACAAACTAAAGGC 583
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                                                                                                                                                                                                                                    agccctctgttacacagcttcttgccagccctggtcatgcagtggccatggagaatgtgt
                                                                                                                                                                                                                                                                                                                 tatcaagagaaacaaagatgcaggcaaatggaacgatgacgcctgccacaaactaaaggc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      aattgagtatctggagaagactctgcctttcagtcgttcttactactggataggaatccg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACATCATGGAACCTACTGCTGGACTTACCATTATTCTGAAAAACCCCATGAACTGGCAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 aactagagaaggaccaagcaaagccatgatatttccatggaaatgtcagagcacccagag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ggctagaagattctgccgagacaattacacagatttagttgccatacaaaacaaggcgga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acatcatggaaccgactgctggacttaccattattctgaaaaacccatgaactggcaaag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ggacttatggaacatcttcaagttgtgggggtggacaatgctctgttgtgatttcctggc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2350 BP; 679 A; 519 C; 490 G; 662 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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Pred. No. 0;
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24 24 25 26 27 Db Qy Db Qy

Db Qy Db	Qy	Qy Db	Db .5	Db Db	Qy	Db ,	Q 5	γ . V	Db	Qy	Db	Qy	В	Ωу	ф	Qy	Db	Qy	Дb	Ωу	Db	Qγ	рь	Qy	Дb	Qy	Дb	Qy	Db	Qy
744 842 804	2	1722 1684	62	564	602	Ö	1542	<u>~</u> ~	1384	1423	w	1363	1264	1304	1204	1244	1144	1184	1084	1124		1064	964	1004	904	944	844	884	784	824
agagtoctatttgcactgtagcotcgcogtctgtgaattggaccatcctatttaactg TTCAGGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTCAGTTGGCTGACTTCCACAC	TGTGAATTGGACCATCCTATTTAACT	AAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA 178	gatcaaatttcacgtcgtcttctgtatactgtggaggtacactcttatagaaagttcaaa 16		CTTCTAAATGAAGTGCAAATTTTGATACATATGTGAATATGGACTCAGTTTTCTTGC		redestrations of the contract		tcatttatcc	TATCCCTCAACCCCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTTTT		CAGTGCATCTGGGAAGATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCC	teetteeatgaaaegttttgtgtggggaceteetaegteaaaeatgaagtgtgtttee 13	CCTTCCATGAAACGTTTTGTGTGGTGGTGGCACCTCCTACGTCAAACATGAAGTGTG-TTC		TAAATCGCCCTTGGTGAAAGAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAA	ttggctggcaaggagattaaaaaaaggcaaggaaatccaagagaagtatgaatga	TGGCTGGCAAGGAGTTAAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGA		CCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCA		AGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGTGATTATA	aactgagttaattgggaagaagaaaccatttgtgaatcatctggaatctggtcaaatcc 10	ACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATC	tagccatcccctggccagcttcagctttacctctgcatgtaccttcatctgctcagaagg 96	AGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAA	aact	ACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTTGGGGGATCATGAAC	tgggattgaagaaaccacctgtggaccatttggaaactggtcatctccagaac	TTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAC
νÞü	1	ω Ε	83	23	61	63	01	41	43	82		22	23	62	63	03	03	43	43	83	83	23	23	63	ω	03	ω	w	ω	ü

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RESULT 1
AAV63460
ID AAV6
XX AAV6
XX Leu8
XX Leu8
XX Leu8
XX Leu8
XX Leu8
XX CDS
FT CDS
FT CDS
FT 21-1
XX 25-
PR 13--

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25-FEB-1988;
13-JUL-1989;
13-JUL-1990;
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This nucleotide sequence comprises human Leu8 cDNA. The cDNA was isolated from a human T lymphocyte cDNA library using a novel isolated from cloning cDNAs from mammalian expression libraries. The method is based on transient expression of an antigen in eukaryotic cells and physical selection of cells expressing the antigen by
                                                                                                                                Example 14;
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nucleotide sequence comprises human Leu8 cDNA. The cDNA was ated from a human Tlymphocyte cDNA library using a novel od for cloning cDNAs from mammalian expression libraries. The od is based on transient expression of an antigen in eukaryotic s and physical selection of cells expressing the antigen by sion to an antibody-coated substrate. The method is useful for
                                                                                                                                                                                 encoding human CD4 surface antigens, ors for expression
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DB; AAW86199.
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95US-0485447.
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Query Match
Best Local Similarity 99.3
Matches 2178; Conservative
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                      CTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACC 883
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1902 TAGCATCTCATGAGTGCCAAGCAAAAGGAGAGAGAGAGAG	Qy Db
1842 CTTCAGGCCTCCCCACCTTCTTCAGGCACCTCTCTTTTTCAGGTTGGCTGACTTCCACACC 1901	Qу
1782 AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGG 1841 	Qу
22 A	Оу
662 624	Ωу
5 6	Qу
1542 GACTTTGCTCTTTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAG 1601 	Qу
4 4	Qу
23 CTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTA 	Ωy
1363 TTCAGTGCATCTGGGAAGATTTCTACCCGACCAACAGTTCCTTCAGCTTCCAGTTTCGCCC 1422	Qy Db
1304 TCCTTCCATGAAACGTTTTGTGTGGGGGGCACCTCCTACGTCAAACATGAAGTGTG-TTCC 1362 	Оу
1244 TTAAATCGCCCTTGGTGAAAGAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAA 1303 	Qу
184 TTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAAGTATGA 	Qу
0	Qy Db
064 TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATG	Qy Db
1004 AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC 1063 	Qy Db
44 TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGT	Qy dd
884 AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTG 943 	Qy

Search completed: October 13, 2001, 01:44:50 Job time: 6945 sec

Title:

Run

9

Sequence

9, Appli 56, Appli 3, Appli 4, Appli 4, Appli 4, Appli 114, Appli 114, Appli 114, Appli 115, Appli 116, Appli 117, Appli 118, Appli

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Minimum DB
Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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Score
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length: 2000000000
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Match Length
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US-08-461-592B-11
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US-08-340-539A-5
US-08-361-592B-5
US-08-365-470-2
US-08-365-470-2
US-08-365-470-1
US-08-365-470-1
US-08-365-470-1
         US-08-110-158-3
PCT-US91-05059-1
5378-64-1
US-08-252-493C-1
US-09-276-197-1
US-08-340-539A-8
US-08-461-592B-7
US-08-461-592B-7
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US-08-481-803-1

US-08-215-366A-1

US-08-340-539A-1

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Compugen Ltd
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                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/513,278
FILING DATE: 10-AUG-1995
CLASSIFICATION DATA:
APPLICATION NUMBER: 07/786149
FILING DATE: 06-MAY-1993
APPLICATION NUMBER: 07/786149
FILING DATE: 05-MAY-1993
APPLICATION NUMBER: 07/315015
APPLICATION NUMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
REFERENCE/COCKET NUMBER: 35,6501C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1, Applic
Patent No. 5840844
GENERAL INFORMATI
                                                     REFERENCE/DOCKET NUMBER: 56
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
APPLICANT: ROSEN, STEVEN D.
APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOUNDER OF SEQUENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 2259 bases
          TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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US-08-340-539A-6
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US-08-276-452A-25
US-08-798-744-25
US-08-965-794-4
US-08-965-794-4
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                                                                                         GGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGAGAACTGGGGAGATGGTG
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Pred. No. 0;
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;ACCCATTCCTATTCTTATAGTCAATGTTT
3AGAGAAGAGAGAAATAGCCTGCGCGGTTTTTTAGTT'
ACCTCTCTTTTTCAGTTGGCTGACTTCCACACC
CGTCTGTGAATTGGACCATCCTATTTAACTGGCT
GAAGTAATGGGGTCCTGCTCAAGTTGAAAGAGT(
TGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACC
TGTGAATATGGACTCAGTTTTCTTG
AGTTTCAATTCAGTGCTGTACTTGATGACAGAC!
AGGGAAAGGATTCATGTGGAATATAAAGATGGCTGACTTT
CAGGTGTTTATACAGCTCAGCTTTTTGTCTTT
CAACAGTTCCTTCAGCTTCCATTTC
CACCTCCTACGTCAAACATGAAGTGTGTTC
GGAATACTAAAAATCATGAGATCCTT
3CAAGAAATCCAAGAGAAGTATGAATGA 3CAAGAAATCCAAGAGAAGTATGAATGA
GTTACTGCATTCTCTGGGTTGGCATTTATC
GACAAAAGTTTCTCAATGATTAAGGAGGGTGATT GACAAAAGTTTCTCAATGATTAAGGAGGTGATT
CATTTGTGAATCATCTGGAATCTGGTCAAAT
CTCTGCATGTACCTTCATCTGCTCAG

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; LOCATION:
US-08-481-803-1
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US-08-481-803-1
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CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10020
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/08481803 Patent No. 5679346
                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/215,366

FILING DATE: 21-MAR-1994

APPLICATION NUMBER: US 07/720,602

FILING DATE: 25-JUN-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/313,109

FILING DATE: 21-FEB-1989

ATTORNEY/AGENT INFORMATION:

NAME: James F. Haley, Jr.

REFERENCE/DOCKET NUMBER: CG-101 CON

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

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TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: 1:
t Local Similarity 98.5%; thes 2161; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Tedder, Thomas F. and Olivier G. Spertini
TITLE OF INVENTION: MONOCLONAL ANTIBODY TO LYMPHOCYTE-ASSOCIATED CELL
TITLE OF INVENTION: SURFACE PROTEIN
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESCE: TOTALESS:
                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 2330 base pairs
TYPE: nucleic acid
STRANDEDMESS: single
TOPOLOGY: linear
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                                                                                                                                                                                         TOPOLOGY: linea MOLECULE TYPE: CI HYPOTHETICAL: NO
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                                                                                                                                                             FEATURE:
                                                                                                                                                                           ANTI-SENSE:
                                                                                                                                       NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                        TELEFAX: (212) 596-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTCCCTCAACCCCACGGGGCCGCCAGCACACTGGAATTC 2259
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1251 Avenue of the Americas
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Score 2087.6;
Pred. No. 0;
0; Mismatches
                                      DB 1;
  24;
    Indels
                                      Length 2330;
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Gaps
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Best Local Similarity
Matches 2161; Conserv
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/720,602
FILING DATE: 25-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/313,109
FILLNG DATE: 21-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Nels T. Lippert
REGISTRATION NUMBER: 25,888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, 1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/215,366;
FILING DATE: 21-MAR-1994
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                              ANTI-SENSE: FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
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TELECOMMUNICATION INFORMATION:
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TITLE OF INVENTION: CE
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION: MONOCLONAL ANTIBODY TO LYMPHOCYTE-ASSOCIATED
TITLE OF INVENTION: CELL SURFACE PROTEIN
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STATE: NY
COUNTRY: USA
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Sequence 1, Application U
GENERAL INFORMATION:
APPLICANT: Tedder, Th
APPLICANT: Kansas, Ge
TITLE OF INVENTION: C

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Thomas F.
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Query Match
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Matches 2161; Conserv
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LENGTH: 2330 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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APPLICATION NUMBER: US 0:
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: BI NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/0 FILING DATE: 16-NOV-1994 CLASSIFICATION: 514
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STATE: New York
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Gunnison, Jane REGISTRATION NUMBER:
                  GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGA
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US-08-340-539A-1

FEATURE:

TOPOLOGY:

NAME/KEY: LOCATION:

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RESULT 5
US-08-461-592B-1
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                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                  APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION UNBER: US/08/461,592B
FILING DATE:
                                                                                                                                       STREET: Ten P
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
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US-08-461-592B-1
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Best Local Similarity
Matches 2161; Conserv
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TELEPHONE: (212) 596-9000
TELEFAX: (212) 596-9090
TELEX: 14-8367
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/008,459

FILING DATE: 25-JAN-1993

ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr.
REGISTRATION NUMBER: 27,794

REFERENCE/DOCKET NUMBER: CG-104
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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ANTI-SENSE: 1
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                                                                                       TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC
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                                                                       TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC
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GATCAAATTTCGCGTCGTCTCTGTATAC-GTGGAGGTACACTCT
       GATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAA
                          ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA
                                                         CTGAGGAGAAACAAATAAGACCAT-AAGGGAAAGGATTCATGTGGAATATAAAAGATGGCT
                                                                                                                               CTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTTGTCTTTT 1482
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FILING DATE: 21-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
APPLICATION NUMBER: 440,625
FILING DATE: 22-NOV-1989
APPLICATION NUMBER: 315,015
FILING DATE: 23-FEB-1989
ID NO:1:
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                                                                               Match 65.0%; Local Similarity 90.3%; ses 1667; Conservative
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         GAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGGAGCCAA 120
gagacccttgtgctaagtcaagaggctcaatgggctgcagaagaactagagaaggaccaa
                                       TITAAATTTCATCTCAGGCCTCCCTCAACCCCAC
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N: RECOMBINANT DNA ENCODING H
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\vdash	AATTGGACAAAAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCTCTTCCATTCCAG	y 10
1080 1070	AGAAGAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAA 	Qy 1021 рь 1011
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006	AAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACCAACC	Qy 841 Db 841
840 840	GCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAG 	Qy 781 Db 781
780	agcctttggaggccccagagctgggtaccatg	Db 721
้	acacctgcaactgtgatgtggggtactatggggccccagtgtcagcttgtgattcagtg	. 66
720	ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTGTG	Qу 661
660	CTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATC	Qy 601 Db 601
600	ATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAG 	Qy 541 Db 541
540 540		Qy 481 Db 481
480 480	GGACG	Qy 421 Db 421
420 420	AGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGGATAT 	Оу 361 Db 361
360 360	ACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGAAAT] 	ωω
300	GCTGGACTTACCATTATTCTGAAAAACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCC 	Qy 241 Db 241
240 240	TCAAGTTGTGGGGGTGGA	Qy 181 Db 181
180 180	1 GCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCT 	Oy 12:

APPLICATION NUMBER: US 08/008,459 FILING DATE: 25-JAN-1993	; AP	
DATA:	; PRIO	
V-1994	FI	
PLICATION DATA:	CURR	
OPERATING SISTEM: PC*DOS/MS*DOS SOFTWARE: Patentin Release #1.0, Version #1.30	; ; SO	
IBM PC compatible		
MEDIUM TYPE: Floppy disk	5	
10020	3	
COUNTRY: USA		
ork		
STREET: 1251 Avenue of the Americas		
ADDR:		
R OF SEQUENCES: 28		
OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS	; TITLE	
CANT: Kansas, Geoffrey S.		
INFORMATION:	GE	
o. 5808025	Patent	
539A-11 11. Appl	US-08-340	
	3	
tagcctcgccgtctgtgaattggaccatcctatttaactggcttca 1670	Db 1625	
TAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGGCTTCA 1846	Оу 1801	
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ttctgtatactgtggaggtacactcttatagaaagttcaaaaagtctacgctctcctttc 1564	Db 1505	
TTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTC 1740	Qy 1681	
anatttgatacatatgtgaatatggactcagttttcttgcagatcaaatttcacgtcgtc 1504	Db 1445	
AAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTC 1680	Qy 1621	
tcagtttcaattcagtgctgtacttgatgacagacacttctaaatgaagtg	Db 1385	
TGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAGACA	Qy 1561	
gaccataagggaaaggattcatgtggaatataaagatggctgactttgctctttctt	Db 1325	
GACCATAAGGGAAAGGATTCATGTGGAATATAAAGATGGCTGACTTTGCTCTTCTTGAC 1560	Qy 1501	•
aggtgtttatacagctcagcttttgtcttttctgaggagaaacaaataa 1324	Db 1275	
CCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAA 1500	Оу 1441	
1274	Db 1275	
ATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCTCATTTATCCCTCAACC 1440	Оу 1381	
1274	Db 1275	
TTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTCCTTCAGTGCATCTGGGAAG 1380	Оу 1321	
aaagaaaattcttggaatactaaa 1274	Db 1251	
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Best Local Similarity
Matches 989; Conserv
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INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: CG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212.596-9000
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AGCCTGCGCGGTTTTTAGTTTGGGGGTTTTGCTGTTTCCTTTTATGAGACCCATTCCTA 2004
                                        GGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGA
                                                                                                      CCATCCTATTTAACTGGCCTCAGGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGT 1884
                                                                                                                                    GGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGA 1824
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Pred. No. 3.2e-261;
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Patent No. 5834425
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APPLICATION NUMBER: US 08/008,459
FILING DATE: 25-JAN-193
ATTORNEY/AGENT INFORMATION:

NAME: James F. Haley, Jr.

REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: CG-104
                                                                                                          INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 1696 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                             TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TELEPAX: (212) 596-9090
TELEFAX: (212) 596-9090
                             HYPOTHETICAL:
                                            MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC S
TITLE OF INVENTION: BLOCKING &
NUMBER OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
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                                                               TOPOLOGY:
                                                                             STRANDEDNESS:
                                                                                            TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 0 FILING DATE: 16-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 02109
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes STREET: Ten Post Office Square
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Query Match Best Local Similarity

Matches 989;

Conservative

40.88;

; Score 922.2; ; Pred. No. 3.2e 0; Mismatches

.2; DB 2; 3.2e-261;

1696;

Length Indels

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; Sequence 3, Application US/08513278
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Best Local Similarity
Matches 1160; Conserv
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TELEPHONE: 415/225-3316
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 06-MAY-1993
APPLICATION NUMBER: 07/786149
FILING DATE: 31-OCT-1991
PRIOR APPLICATION DATA: 1991
PRIOR APPLICATION UMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: DIEGET, Ginger R.
REGISTRATION UMBER: 33,055
REFERENCE/DOCKET NUMBER: 565D1C
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FILING DATE: 10-AUG-1995
CLASSIFICATION: 5530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (denentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE
NUMBER OF SEQUENCES: 6
CORRESSPONDENCE ADDRESS:
ADDRESSER. GOSTOCK TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM: MEDIUM TYPE: 5.25 inch,
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TOPOLOGY: linear
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STREET: 460 Point San Brur
CITY: South San Francisco
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: nucleic acid
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                   AAACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTG 391
                                                                                              GAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACA
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AAACAAGAGAGAAATTGAGTATTTAGAGAATACATTGCCCAAAAGCCCCTTATTACTACTG
                                                                                                                                                   TGACTTCCTGATACACCATGGAACTCACTGTTGGACTTACCATTATTCTGAAAAGCCCAT
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                                                                        GAACTGGGAAAATGCTAGAAAGTTCTGCAAGCAAAATTACACAGATTTAGTCGCCATACA
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STACHELL, SCOTT |
ROSEN, STEVEN D.
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NUMBER OF SEQUENCES: 43
CURRENT APPLICATION UNBER: U$708/18:
APPLICATION UNBER: U$708/18:
FILING DATE: 21-JAN-194
PRIOR APPLICATION DATA:
APPLICATION UNBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
APPLICATION UNBER: 440,625
FILING DATE: 22-NOV-1989
APPLICATION NUMBER: 315,015
FILING DATE: 23-FEB-1989
SEQ ID NO:3:
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5514582-3
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; APPLICANT: CAPON, DA
TITLE OF INVENTION:
; IMMUNOGLOBULINS
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ANT: CAPON, DANIEL J.;LASKY, LAURENCE
OF INVENTION: RECOMBINANT DNA ENCODING
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Pred. No. 6.2e-242;
0; Mismatches 392;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340
FILING DATE: 16-NOV-1994
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: US 08/008
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Gunnison, Jane
REGISTRATION NUMBER: 38,479
REFERENCE/DOCKET NUMBER: CG-1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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TOPOLOGY: lin
MOLECULE TYPE:
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MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Tedder, APPLICANT: Kansas,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS
                             393
                                                                                                                   132
                                                                                                                                               273
252
                                                          192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP:
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CITY: New York
STATE: New York
COUNTRY: USA
                                                                                                                                                                            72
                                                                                                                                                                                                                                                  Local
                                                                                                                                                                                                                                                                                                                                                                         TYPE:
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               AACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAA 332
AACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACTACTGG
                                                                        AACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGG
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387; Conserv
                                                                                                                                                                                                                                                                                                                                                                    nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                       531 base pairs
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99.2%;
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BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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                                                                                                                                                                                                                                    Score 385.2; DB 1;
Pred. No. 1.2e-103;
0; Mismatches 3;
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311
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US-08-461-592B-5
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Best Local
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INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: CG-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                       MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 531 base pairs
                                                                                                                                             ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 25-JAN-1993
                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/340,539
FILING DATE: 16-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
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APPLICANT: Kansas, Geoffrey S.

TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
COMPUTER READABLE FORM:
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                                                                                                                                                                                  TOPOLOGY:
                                                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: sing
                                                                                                                                                                                                                                                                              TELEPHONE: (212) 596-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 514
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER:
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387; Conserv
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99.2%;
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                                                       Score 385.2;
Pred. No. 1.2e
0; Mismatches
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                                                       .2e-103;
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                                                                                  DB 2;
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                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: LBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/365,470
FILING DATE: herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/102,510
FILING DATE: 05-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2, Application US/08365470 Patent No. 5632991
                                                                                                                                                    APPLICATION NUMBER: US 07/850,802
APPLICATION UNBER: US 07/850,802
ATTORNEY/AGENT INFORMATION:
NAME: Markowicz, Karen R.
REGISTRATION NUMBER: 36,351
REFERENCE/DOCKET NUMBER: 0627.13500
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2500
TELEFAX: 202-371-2540
                                                                                                                      TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Gimbrone, Jr., Michael A.
TITLE OF INVENTION: Antibodies Specific For E-selectin And The Uses
TITLE OF INVENTION: Thereof
                              FEATURE:
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
 LOCATION:
OTHER INFO
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                                                                         LENGTH: 1833 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   573 AAACTAAAGGCAGCCCTCTGTTACACAGCT 602
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                                                             TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 1100 New CITY: Washington
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1100 New York Ave.,
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                nucleic acid
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; Sequence 18, Application U
; Patent No. 6114517
; GENERAL INFORMATION:
; APPLICANT: Monia, Brett P
; APPLICANT: Xu, Xiaoxing S
                                                                                        RESULT 14
US-09-209-668-18
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Best Local Simi
Matches 508;
                                                                                                                                                                                                   1022 GAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAA 1079
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Pred. No. 2.9e-81;
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TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES
FILE REFERENCE: ISPH-0336
CURRENT APPLICATION NUMBER: US/09/209,668A
CURRENT FILING DATE: 1998-12-10
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 18
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Best Local Similarity 60.6%;
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LOCATION: (117)..(1949)
PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: M24736/Genbank
DATABASE ENTRY DATE: 1994-11-07
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Pred. No. 4.3e-81;
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US-08-365-470-1
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Best Local Similarity
Matches 508; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/102,510
FILING DATE: 05-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/850,802
FILING DATE: 13-MAR-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3854 base pairs
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TELEFAX: 202-371-2540
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APPLICATION NUMBER: US
FILING DATE: herewith
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TITLE OF INVENTION: Antibodies Specific
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, Version
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Pred. No. 4.3e-81;
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                           GAAGAAAACCATTTGTGAATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAA 1079
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                                                                   CTTCCCATGGAACACACCTGTACATTTGACTGTGAAGAAGGATTTGAACTAATGGGAGC 958
                                                                                          CTTCAGCTTTACCTCGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAA 102:
                                                                                                                                                                       GTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCAG 961
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Search completed: October 13, 2001, 02:43:31 Job time: 9945 sec

Run on:

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Title:
Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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/ptodata/1/pna/US6014_COMB.seq
/ptodata/1/pna/US6015_COMB.seq
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Description

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; STRANDEDNESS:
; TOPOLOGY: Lit
US-09-119-209-1
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Best Local S
Matches 2259
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GENERAL INFORMATION:
APPLICANT: LASKY, LAURENCE A
APPLICANT: STACHELL, SCOTT I
APPLICANT: ROSEN, STEVEN D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy di

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/119,209

FILING DATE: 20-Jul-1998
                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 07/315015
EILING DATE: 23-FEB-189
ATTORNEY AGENT INFORMATION:
NAME: LOVE, RICHARD B.
REGISTRATION NUMBER: 34,659
REFERENCE/DOCKET NUMBER: 9056
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-5530
                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/513278
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059027
FILING DATE: 6-MAY-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                       TELEPHONE: 650/225-5530
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 2259 base pairs
TYPE: Nucleic acid
                     121
                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech
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                                                                                             1 GAATTCCAGTGTGCTGGCTTCCTCACCTGCAGCACAGGACACTCCCTTTTGGCAAGGACCT 60
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FILING DATE: 31-OCT-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
    GCAAAGCCATGATATTTCCATGGAAATGTCAGAGGACCCAGAGGGACTTATGGAACATCT
                                     Application US/09119209
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                                                                                        AATTGGACAAAAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCCTCTTCATTCCAG
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INFORMATION FOR SEQ ID NO:
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APPLICANT: Susan G. Stuart
APPLICANT: Jeffrey J. Sealhamer
TITLE OF INVENTION: COMPOSITION FI
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1508
CORRESPONDENCE ADDRESS:
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REFERENCE/DOCKET NUMBER: 97
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
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ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
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LENGTH: 2354 base pair
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STREET: 3174 PORTER DRIVE
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Sequence 8, Application US/60243521
GENERAL INFORMATION:
APPLICANT: Hopkins, Christopher M.
APPLICANT: Peterson, David P.
APPLICANT: Cocks, Benjamin G.
APPLICANT: Hawkins, Phillip R.
TITLE OF INVENTION: GENES REGULATED IN ACTIFILE REFERENCE: PA-0042 P.
CURRENT APPLICATION NUMBER: US/60/243,521
CURRENT FILING DATE: 2000-10-25
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PERL Program
SEQ ID NO 8
LENGTH: 2385 US-60-243-521-8; Sequence 8, Ap LENGTH: 2385
TYPE: DNA
ORGANISM: Homo FEATURE: NAME/KEY: misc_feature sapiens IN ACTIVATED

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; OTHER INFORMATION: Template US-60-243-521-8
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ACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCA
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                                                                                           <u>agctgctctgaaggaacaaacttaactgggattgaagaaaccacctgtggaccattttgga</u>
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APPLICANT: Lal, Preeti

APPLICANT: Diep, Dinh

TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using

TITLE OF INVENTION: Polymucleotide Sequence Databases, and Single Nucleotide Polymor

TITLE OF INVENTION: Identified Thereby

TITLE REFERENCE: GX-0014 P

CURRENT APPLICATION NUMBER: US/60/213,360

CURRENT FILING DATE: 2000-06-21

NUMBER OF SEQ ID NOS: 8347

SOFTWARE: PERL Program

SEQ ID NO 1118

LENGTH: 2385
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ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyt
S-60-213-360-1118
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Matches 2200; Conser
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                                        TCTCTCACTGAAGAAGCAGAGAACTGGGGGAGATGGTGAGCCCAACAACAACAAGAACAAG
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Sequence 8480, Application US/09396970

GENERAL INFORMATION:
APPLICANT: Gearing, David P.
APPLICANT: Gearing, David P.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES DERIVITIES OF INVENTION: MUST LYMPHOCYTE LIBRARY FILE REFERENCE: MLN98-40pA
CURRENT APPLICATION NUMBER: US/09/396,970
CURRENT FILING DATE: 1999-09-14
FEARLIER APPLICATION NUMBER: 60/100,293
EARLIER FILING DATE: 1999-09-14
NUMBER OF SEQ ID NOS: 8756
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 8480
CRGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(2564)
OTHER INFORMATION: n = A,T,C or G
US-09-396-970-8480
         Query Match
Best Local Similarity
Matches 2200; Conserv
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          Conservative
                   95.2%;
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                             TCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATG
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                                           AATTCCTTGATTCACAATGAAATGCTCTCCCTTTCCCCTGCCCCCAGAACTTTTATCCACT
                                                                                       AATGCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGA
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US-09-495-050A-292
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CURRENT FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/118,318
PRIOR FILING DATE: February 1, 1999
NUMBER OF SEQ ID NOS: 305
SOFTWARE: PERL Program
SEQ ID NO 292
LENGTH: 2385
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Best Local Similarity
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APPLICANT: Guegler, Karl, J.
APPLICANT: Guegler, Karl, J.
APPLICANT: Au-Young, Janice
TITLE OF INVENTION: COMPOSITION FOR DETECTION
FILE REFERENCE: PA-0013 US
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ORGANISM: HOMO
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APPLICANT: ROODA, Reddy
APPLICANT: Guegler, Karl, J.
APPLICANT: Guegler, Karl, J.
APPLICANT: Guegler, Karl, J.
APPLICANT: Au-Young, Janice
FITLE OF INVENTION: COMPOSITION FOR DETECTION FOR DETECTION FOR DETECTION FOR DETECTION FOR DETECTION FOR DETECTION OF SECURENT FILING DATE: 1999-02-01

NUMBER OF SEQ ID NOS: 306
SOFTWARE: PERL PROGRAM
SEQ ID NO 292
LENGTH: 2385
TYPE: DNA
ORGANISM: Homo saplens
FEATURE: -
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                                   TCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATG
                                                                                                                                        ACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCA
                                                                                                                accttcatctgctcagaaggaactgagttaattgggaagaagaaaccatttgtgaatca
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                                                                                      aatgctagctgcaagtgacatctctttgatgtcatatggaagagttaaaacaggtggaga
                                            aattccttgattcacaatgaaatgctctcctttcccctgcccccagaacttttatccact
                                                                                                  AATGCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGA
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                                                                                                                                 ctatttcttatagtcaatgtttcttttatcacgatattattagtaagaaaacatcactga
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.. RESULT 8
US-60-172-373-15742
; Sequence 15742, Application
; GENERAL INFORMATION: US/60172373

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APPLICANT: Morris, MacDonald
APPLICANT: Lal, Preeti
APPLICANT: Diep, Dinh
TITLE OF INVENTION: Method for the
TITLE OF INVENTION: Polynucleotide Identification Sequence Databa Databases, of Sequence Poly ases, and Single Polymorphisms | ngle Nucleotide Using e Polym

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; TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/60/172,373
CURRENT FILING DATE: 1999-12-16
NUMBER OF SEQ ID NOS: 25,772
SOFTWARE: PERL PROGRAM
SEQ ID NO 15742
LENGTH: 2387
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                          aggaggactgcgtggagatctatatcaagagaaacaaagatgcaggcaaatggaacgatg
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Best Local Similarity

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TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
TELEX: 940675
TELEX: 940675
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2330 base pairs
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GENERAL INFORMATION:
   PUBLICATION INFORMATION:
DOCUMENT NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Dana-Farber Cancer Institute, TITLE OF INVENTION: LEUKOCYTE-ASSOCIATED TITLE OF INVENTION: PROTEIN
                                                                                                     ANTI-SENSE:
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CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
                                                                                                                                                                             TYPE: NUCLEIC ACID
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                                                         TCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAATGA
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 AATGCTCTCCCTTCCCCTGCCCCCAGACCTTTATCCACTTACCTAGATTCTACATATTC
                                             TCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAATGA
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Best Local Similarity
Matches 2161; Conserv
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FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 07/737,092
FILING DATE: 29-JUL-1991
PRIOR APPLICATION DATA:
APPLICATION DATA: US 07/737,092
FILING DATE: 29-JUL-1991
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PRIOR APPLICATION DATA:
APPLICATION DATA:
US 08/008,459
FILING DATE: 25-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION UDATA:
US 07/983,606
FILING DATE: 30-NOV-1992
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/313,109
FILING DATE: 21-FEB-1989
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 07/730,503
FILING DATE: 08-ULT.191
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/700,773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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HYPOTHETICAL:
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164
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                               AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG 163
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	1243	AAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCCAT	1184	Qy
	1183 1146	CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCAT 1	1124	Db Qy
·	80	GTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGTGATTATAA	Ö	дь
	1123	AGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGTGATTATAA	1064	Qy
	02	GGAAGAAGAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC	967	DЪ
	1063	TGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC	1004	Qy
	966	GCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG	907	뮵
	1003	TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG	944	Qy
	906	CTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTG	847	ф
	943	AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTG	884	Qy
	4	CTTAACTGGGATTGAAGAAACCACTGTGAACCATTTGGAAACTGGTCATCTCCAGAACC	787	Db
	883	CTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACC	Ñ	Qy
	786	CTTTGGGAAACTTCAACTCAACTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA	727	DЪ
	823	CCCTTTGGAAACTTCAGCTTCAGCTCAACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA	764	Qy
	N o	GTTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA	667	문
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	0	AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGGTACTATGGGCCCCAGTGTC	644	Qy
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	643	CCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTG	58,	Qy
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	343	4 GGCTAGAAGATTCTGCCGAGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGG	8	Qy
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RESULT 11
US-08-008-459-1
US-08-008-459-1
; Sequence 1, Application US/08008459
; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F.
; APPLICANT: Kansas, Geoffrey S.

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US-08-008-459-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION UMBER: US 07/983,606

APPLICATION NUMBER: US 07/862,483

FILING DATE: 02-APR-1992

PRIOR APPLICATION NUMBER: US 07/862,483

FILING DATE: 02-APR-1992

FILING TOTAL NUMBER: TRIBLE TOTAL NUMBER: 02-APR-1992
                                                                                         Query Match
Best Local Similarity
Matches 2161; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/730,503

FILING DATE: 08-JUL-191

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                        TELEX: 940675
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: BLOCKING AGENTS FOR COMP
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/737,092
FILING DATE: 29-JUL-1991
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CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 07/313,109
FILING DATE: 21-FEB-1989
ATTORNEY_AGENT INFORMATION:
NAME: Heine, Holliday C.
                                                                                                                                                                                                    FEATURE:
                                                                                                                                                                                                               HYPOTHETICAL:
ANTI-SENSE: I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
                                                                                                                                                                                                                                         MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: DEFELECOMMUNICATION INFORMATION: TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
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STREET: Ten
CITY: Bosto
STATE: MA
COUNTRY: US
ZIP: 02109
               104
                                                                                                                                                                        NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Heine, Holliday
REGISTRATION NUMBER: :
                                                                 44
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                                      CCCTTTGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAG 103
             AACTAGAGAAGGACCAAGCCAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG 163
nucleic acid
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               TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG
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HAME/REY: CDS
LOCATION: 53..1210
PUBLICATION INFORMATION:
DOCUMENT NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
US-08-340-539-1
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APPLICATION NUMBER: US 08/008,459

FILING DATE: 25-JAN-1993

PRIOR APPLICATION NUMBER: US 07/983,606

FILING DATE: 30-NOV-1992

PRIOR APPLICATION NUMBER: US 07/862,483

FILING DATE: 02-APR-1992

PRIOR APPLICATION NUMBER: US 07/770,608

FILING DATE: 03-OCT-1991

PRIOR APPLICATION NUMBER: US 07/737,092

FILING DATE: 29-JUL-1991

PRIOR APPLICATION NUMBER: US 07/730,503

FILING DATE: 29-JUL-1991

PRIOR APPLICATION NUMBER: US 07/730,503

FILING DATE: 08-JUL-1991

PRIOR APPLICATION NUMBER: US 07/730,733

FILING DATE: 15-MAY-1991

PRIOR APPLICATION NUMBER: US 07/700,773

APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION NUMBER: US 07/731,109

FILING DATE: 11-FORMATION:

APPLICATION NUMBER: US 07/313,109

FILING DATE: 31-FEB-1989

ATTORNEY/ACENT INFORMATION:

REFERENCE NOTWERT NUMBER: DECT-318YX

REFERENCE NOTWERT NUMBER: DECT-318YX
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,539
FILING DATE: 16-NOV-1994
CLASSIFICATION: 514
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                         TELEFAX: (617) 451-031
TELEX: 940675
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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APPLICANT: Tedder,
APPLICANT: Kansas,
                                                                                                                ANTI-SENSE:
FEATURE:
NAME/KEY:
LOCATION:
                                                                                                                                                                                                             MOLECULE TYPE HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                 REFERRNGL/DOCKET NUMBER: DF
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin,
STREET: Ten Post Office Square
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                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
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BLOCKING AGENTS FOR COMPONENT SELECTIN
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RESULT 12 US-08-340-539-1

Sequence 1, Application

US/08340539

Db 487 TATCAÁGACÁAACAAÁGATGCÁGGCAAATGGAACGATGACGCTCCCCACAAACTAÁGGC 546 Qy 584 AGCCCTCTGTTACACAGCTTCTTGCCAGGACCATGACGCTCCCCACAAACTAÁAGGC 546 11111111111111111111111111111111111	Best Local Similarity 98.5%; Pred. NO. 0; Hatches 2161; Conservative 0; Mismatches 24: Indels 9; Gaps 5; Qy 44 CCCTTTGGCAAGGACCTTGAGACCCTTGTGCTAAGTGGAGTCAATGGGCTGCAGAG 103
1622 GATCAAATTTCACGTCGTCTTCTGTATACTGTGAGGTACACTCTTATAGAAGTCAAATTCACGTCGTCTTCTGTATACTGTGAGGTACACTCTTATAGAAAGTCAAATTCACGTCGTCTTCTGTATACTGTGAGGTACACTCTTATAGAAAGTCAAATTCACGTCGCTCTCTCT	Db 1027 TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAAGGAGGGTGATTATAA 1086 Qy 1124 CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGATTCATGATTATCAT 1183

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US-08-410-569-1
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US-08-410-569-1
                                                                                                                                              Query Match
Best Local Similarity
Matches 2161; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/08410569 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/770,608

FILING DATE: 03-0CT-1991

APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Heine, Holliday C.
                                                                                                                                                                                                                                                                                                                                                                          TELEX: 940675
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                             NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,346
REFERENCE/DOCKET NUMBER: DFCG-152EX
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEPHONE: (617) 451-0313
TELEY: 040675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Tedder, TIDINGS G.
APPLICANT: Spertini, Olivier G.
APPLICANT: SPERTINI COLIVER ADHESION MOLECULE-1 (LAM-1)
TITLE OF INVENTION: AND LIGAND THEREOF
TITLE OF INVENTION: AND LIGAND THEREOF
THEREOF OF SEQUENCES: 11
                                                                                                                                                                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: Sincl-
TOPOLOGY
                                                                                                                                                                                                                                                          FEATURE:
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CORRESPONDENCE ADDRESS:
CORRESPONDENCE Wedgarten, Schurgin,
CORRESPONDENCE Office Square
                                                                                                                                                                                                                                                                        ANTI-SENSE:
                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: Patentin polanomia
                                                                                                                                                                                                                                NAME/KEY:
LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
GGACTTATGGAACATCTTCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGC
                                                                                           CCCTTTGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAG 103
                                        AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG 163
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                                                                  AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTG
                                                    CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCAT
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RESULT 14
US-60-164-285-5139
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; GENERAL INFORMATION:
; APPLICANT: Ma, X1ao-Jun
; TITLE OF INVENTION: Tumor A
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RESULT 15
US-60-164-285-5456
US-60-164-285-5456
Sequence 5456, Application US/601642b5
GENERAL INFORMATION:
APPLICANT: MA, X1ao-Jun
TITLE OF INVENTION: Tumor Associated Molec
FILE REFERENCE: 3214
CURRENT APPLICATION NUMBER: US/60/164,285
CURRENT FILING DATE: 1999-11-05
NUMBER OF SEQ ID NOS: 8259
SEQ ID NO 5456
LENGTH: 1788
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RESULT 2
US-60-278-258-2538
; Sequence 2538, Application US/60278258
; GENERAL INFORMATION:
APPLICANT: Hal, Preeti
; APPLICANT: Diep, Dinh
; APPLICANT: Diep, Dinh
; TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
; TITLE OF INVENTION: Polymorphisms Identified Thereby
; TITLE OF INVENTION: Polymorphisms Identified Thereby
; TITLE OF INVENTION: Polymorphisms Identified Thereby
; FILE REFERENCE: GX-0010-1 p
; CURRENT APPLICATION NUMBER: US/60/278,258
; CURRENT FILING DATE: 2001-03-23
; NUMBER OF SEQ ID NOS: 17730
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; SOFTWARE: PERL Program
; SEQ ID NO 2538
; LENGTH: 2386
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte II
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RESULT 3
US-09-760-475-377
US-09-760-475-377
Sequence 377, Application US/09760475
GENERAL INFORMATION:
APPLICANT: Rosen et al.
APPLICANT: ROSEN et al.
FILE OF INVENTION: Nucleic Acids, Proteins, and FILE REFERENCE: PTZ49
CURRENT APPLICATION NUMBER: US/09/760,475
CURRENT FILING DATE: 2001-01-16
Prior application data removed - consult PALM ON UNMBER OF SEQ ID NOS: 4122
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 377
LENGTH: 2339
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ORGANISM: Homo sapiens
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Sequence 684, Application US/09760443
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PJZ12
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
Prior application data removed - refer to PA
NUMBER OF SEQ ID NOS: 2164
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 684
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TYPE: DNA
ORGANISM: Homo saple
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LOCATION: (1114)
OTHER INFORMATION: n
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9; Mismatches 27;
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NUMBER OF SEQ ID NOS: 4122
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1506
LENGTH: 1213
TYPE: DNA
ORGANISM: Homo sapiens
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GENERAL INFORMATION:
APPLICANT: ROSEN et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PTZ49
CURRENT APPLICATION NUMBER: US/09/760,475
CURRENT FILING DATE: 2001-01-16
                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
NAME/KEY: SITE
LOCATION: (1114)
OTHER INFORMATION: n e
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LOCATION: (1121)
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APPLICANT: KUMBAY, Beena
APPLICANT: KUMBAY, ANAIT MAGAN
TITLE OF INVENTION: HAPLOTYPES OF THE SELL GE!
FILE REFERENCE: SELL MWH1116-PCT
CURRENT APPLICATION NUMBER: PCT/US01/26675
CURRENT FILING DATE: 2001-08-27
PRIOR APPLICATION NUMBER: 60/228,262
PRIOR FILING DATE: 2000-08-25
PRIOR FILING DATE: 2000-08-25
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 1119
TYPE: DNA
ORGANISM: Homo Sapiens
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Best Local Similarity
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Bieglecki, Karyn M
Kliem, Stefanie E
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Pred. No. 3.6e-290;
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CURRENT APPLICATION NUMBER: US/09/758,449
CURRENT FILING DATE: 2001-01-11
PRIOR APPLICATION NUMBER: 60/179,065
PRIOR FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/180,628
PRIOR FILING DATE: 2000-02-04
NUMBER OF SEQ ID NOS: 1478
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LENGTH: 1298
TYPE: DNA
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Best Local Similarity
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TITLE OF INVENTION: Nucleic Acids, Proteins,
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RESULT 8
US-09-760-443-575
US-09-760-443-575
; Sequence 575, Application US/09760443
; GENERAL INFORMATION:
; APPLICANT: ROSEN et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, FILE REFERENCE: POIL2
; CURRENT APPLICATION NUMBER: US/09/760,443
; CURRENT FILING DATE: 2001-01-16
; Prior application data removed - refer to PA
; NUMBER OF SEQ ID NOS: 2164
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SEQ ID NO 575
LENGTH: 1298
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Best Local Similarity
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                    aactggtcatctccagaaccaacctgtcaagtgattcagtgtgagcctctatcagcacca
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                                                                                                                         LOCATION: (6997)..(6997)
OTHER INFORMATION: PS8:
NAME/KEY: allele
LOCATION: (7027)..(7027)
OTHER INFORMATION: PS9:
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APPLICANT: Anastasio,
APPLICANT: Bieglecki,
APPLICANT: Kliem, Stef
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CURRENT FILING DATE: 2001-08-27
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LOCATION: (6783)..(6783)
OTHER INFORMATION: PS6:
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LOCATION: (6682)..(6682)
OTHER INFORMATION: PS5:
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LOCATION: (4206)..(4206)
OTHER INFORMATION: PS3:
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LOCATION: (3444)..(3444)
OTHER INFORMATION: PS2:
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LOCATION: (3349)..(3349)
OTHER INFORMATION: PS1:
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                                                                                                                                                                                                           NAME/KEY: allele LOCATION: (6784)..(6784) OTHER INFORMATION: PS7:
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NAME/KEY: allele
LOCATION: (12363)..(12363)
OTHER INFORMATION: PS12:
                                         NAME/KEY: allele
LOCATION: (10868)..(10868)
OTHER INFORMATION: PS11:
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                                                                                                NAME/KEY: allele
LOCATION: (8220)
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Koshy, Beena
Kumar, Anant Madan
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Best Local
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LOCATION: (24122)..(24122)
OTHER INFORMATION: PS21: p
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LOCATION: (23787)..(23787)
OTHER INFORMATION: PS18:
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LOCATION: (19074)..(19074)
OTHER INFORMATION: PS15:
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LOCATION: (24041)...(24041)
OTHER INFORMATION: PS20:
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LOCATION: (23925)..(23925)
OTHER INFORMATION: PS19:
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LOCATION: (23767)..(23767)
OTHER INFORMATION: PS17:
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OTHER INFORMATION: PS16:
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LOCATION: (18851)..(18851)
OTHER INFORMATION: PS14:
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                        ggtcctgctcaagttgaaagagtcctatttgcactgtagcctcgccgtctgtgaattgga
                                       GGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGA 1824
                                                                                                                                      gactcagttttcttgcagatcaaatttcacgtcgtcttctgtatactgtggaggtacact
                                                                                                                                                                  GACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACT 1704
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Pred. No. 4.5e-252;
5; Mismatches 2;
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CURRENT FILING DATE: 2001-01-11
PRIOR APPLICATION NUMBER: 60/19,065
PRIOR FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/180,628
PRIOR FILING DATE: 2000-02-04
PRIOR FILING DATE: 2000-02-04
NUMBER OF SEQ ID NOS: 1478
SOFTWARE: PATENTIN VET. 2.0
SEQ ID NO 373
SEQ ID NO 373
LENGTH: 1063
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US-09-758-449-373/c
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Best Local S
Matches 797
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OTHER INFORMATION: n e
NAME/KEY: SITE
LOCATION: (54)
OTHER INFORMATION: n e
IS-09-758-449-373
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TITLE OF INVENTION: Nucleic Acids, Proteins, and
FILE REFERENCE: PM026
                                                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                               NAME/KEY: SITE
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                                                            CAAATAAGACCAT-AAGGGAAAGGATTCATGTGGGAATATAAAGATGGCTGACTTTGCTCT 1552
CAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATGGCTGACTTTGCTCT
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99.3%;
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                                                                                                                                                Score 775; DB 6; pred. No. 7.4e-200; 2; Mismatches 2;
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APPLICANT: MANDION, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER
TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
FILE REFERENCE: 2077.001200
CURRENT APPLICATION NUMBER: US/09/796,692
CURRENT FILING DATE: 2001-03-01
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,999
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US-09-796-692-210/c
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GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
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FILING DATE: 2000-05-01
APPLICATION NUMBER: 60/202,084
FILING DATE: 2000-05-04
APPLICATION NUMBER: 60/206,201
FILING DATE: 2000-05-22
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RESULT 12
US-09-796-992-4884/c
; Sequence 4884, Application US/09796692
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
. APPLICANT: Mannion, Jane
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PRIOR FILING DATE: 2000-07-14
PRIOR FILING DATE: 2000-08-03
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR FILING DATE: 2000-08-07
NUMBER: FastSEQ for Windows Version 3.
SEQ ID NO 210
ENGTH: 579
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NAME/KEY: misc_feature

; LOCATION: (1)...(579)

; OTHER INFORMATION: n = A,T,C

US-09-796-692-210
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Pred. No. 3.2e-142;
0; Mismatches 4;
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PRIOR FILING DATE: 2000-03-01
PRIOR PELICATION NUMBER: 60/190,479
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-29
PRIOR FILING DATE: 2000-04-29
PRIOR FILING DATE: 2000-04-29
PRIOR FILING DATE: 2000-04-29
PRIOR FILING DATE: 2000-05-01
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Best Local S
Matches 575
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SOFTWARE: FastSEQ for Windows
SEQ ID NO 4884
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NAME/KEY: unsure
LOCATION: (511)
OTHER INFORMATION: (
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CURRENT APPLICATION NUMBER: US/09/796,692
CURRENT FILING DATE: 2001-03-01
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ORGANISM: Homo
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OR FILING DATE: 2000-05-04
OR APPLICATION NUMBER: 60/206,201
OR FILING DATE: 2000-05-22
OR APPLICATION NUMBER: 60/218,950
OR FILING DATE: 2000-07-14
OR APPLICATION NUMBER: 60/222,903
OR APPLICATION NUMBER: 60/222,903
OR APPLICATION NUMBER: 60/223,416
OR FILING DATE: 2000-08-03
OR APPLICATION NUMBER: 60/223,416
OR FILING DATE: 2000-08-04
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575; Conserv
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nilarity 99.1%;
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Pred. No. 3.2e-142;
0; Mismatches 4;
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; LOCATION: (497)
; OTHER INFORMATION: n=A,T,C
US-09-796-692-5257
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                                                                                                             Query Match
Best Local S
Matches 573
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SOFTWARE: FastSEQ for
SEQ ID NO 5257
LENGTH: 577
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PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-27
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APPLICANT: Mannion, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
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CURRENT FILING DATE: 2001-03-01
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                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                               FEATURE:
                     1688 TACTGTGGAGGTACACTCTT-ATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTA 1746
                                                Local Similarity
nes 573; Conserv
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FILING DATE: 2000-05-01
APPLICATION NUMBER: 60/202,084
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FILING DATE: 2000-04-28
APPLICATION NUMBER: 60/200,779
FILING DATE: 2000-04-28
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                                                                                                             Conservative
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                                                                                                          Score 549.2; DB 6;
Pred. No. 1.1e-138;
0; Mismatches 3;
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GENERAL INFORMATION:

Sequence 8471, Application US/09796692

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RESULT 14
US-09-796-692-8471/c
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                                                         GACCTTTATCCACTTACCTAGATTCTACATATTCTTT
                                                                                                                  TAAAACAGGTGGAGAAATTCCTTGATTCACAATGAAATGCTCTCCTTTCCCCTGCCCCCA
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APPLICANT: Galger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Manifon, Jane
APPLICANT: Manifon, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER
TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
FILE REFERENCE: 2077.001200
CURRENT ETLING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/203,378
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR APPLICATION NUMBER: 60/223,378
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Sequence 3296, Application US/09534857

GENERAL INFORMATION:
APPLICANT: Seilhamer, Jeffrey J.
APPLICANT: Delegeane, Angelo M.
APPLICANT: Stuart, Susan G.
APPLICANT: Stuart, Susan G.
APPLICANT: Mullahy, Sara J.
APPLICANT: Mullahy, Sara J.
APPLICANT: Mullahy, Sara J.
APPLICANT: Mullahy, Rebecca E.
FITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR
FILE REFERENCE: PD-1012 CIP
CURRENT APPLICATION NUMBER: US/09/534,857
CURRENT FILING DATE: 2000-03-24
PRIOR application data removed - consult PALM or
NUMBER OF SEG ID NOS: 8920
SOFTWARE: PERL Program
SEQ ID NO 3296
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Matches 507
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OTHER INFORMATION: n-A,T,C o
NAME/KEY: unsure
LOCATION: (450)
OTHER INFORMATION: n-A,T,C o
IS-09-796-692-8471
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TYPE: DN
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mes 507; Conserv
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Pred. No. 8.6e-124;
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Search completed: October 13, Job time: 8394 sec

2001,

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID
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Matches 471; Conserv
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                        TCCCTCAACCCCAC 2235
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Pred. No. 5.3e-108
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Database :
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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Copyright (c) 1993 - 2000 Compugen Ltd.
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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result

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M Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Ver
Mammalia; Butheria; Primates; Catarrhini; H
1 (bases 1 to 827)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Ge
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
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602590967F1 NIH_MGC_77 I
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AV743576 AV743576
BE246681 TCBAPIE50
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BF903433 CM1-MT023
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AI144344 cy84h12.x
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BE241595 TCAAP1E06
AI038133 cw24e10.x
H70946 yr73a07.r1
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IMAGE:4717456 5',
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BG236008 naf20h11.
N72396 yv39c11.r1
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BG541944 602569447
AW950859 EST362929
AW408490 UI-HF-BK0
BF790688 602550524
AW075834 xa80c03.x
BF243091 601876443
BG531689 602560237
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H00756 yj26g04.r1
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TITLE JOURNAL COMMENT

REFERENCE AUTHORS

ACCESSION VERSION KEYWORDS

SOURCE

ORGANISM

RESULT BG570665

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DEFINITION

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TACAAAACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACT
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TCACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAAGAACAAGGAGG
                                                                                                                                                                                                                                                                                                                                                                TACAAAACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACT
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Location/Qualifiers
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Tissue Procurement: CLONTECH Laboratories,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CDNA Library Preparation: CLONTECH Laboratories, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Consortium Clone distribution: MGC clone distribution information can
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/Clone_Iib="NIH_MGC_77"
//lab_host="DH10B (T1 phage-resistant)"
//lab_host="DH10B (Clontech); Site_1:
//lab_h
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Contact: Robert Strausberg, Ph.D.
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Tissue Procurement: CLONTECH Laboratories,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
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/note="Organ: lung; Vector: pDNR-LIB (Clontech); Site_1:
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                                 Contact: John Quackenbush
The Institute for Genomic R
9712 Medical Center Dr., Ro
Tel: 301 838 3528
Fax: 301 838 0208
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                                                                                               Assessment of gene expression metastasis using a 19,200 elem Unpublished (2000)
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Hegde, P., Qi, R., Abernathy, K.,
, I.E., Saeed, A.I., Sharov, V.,
           Email: johnq@tigr.org
Plate: 20
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AW408490 AW408490.1 GI:6927547
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 551) NIH-MGC http://mgc.nci.nih.gov/.
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Eco RI site shown at the beginning
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Contact: Robert St
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Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: M.B. Soares Lab
cDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information
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Bonaldo, Ph.D. and
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ANTGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTGGGGGTGGACAATGC 204
                                                                                                                                                       GCTCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGA 144
                                                                                                                                                                                                      ACCTGCAGCACAGCACACTCCCTTTGGCAAGGACCCTGAGACCCTTGTGCTAAGTCAAGAG 84
                                                                                                                                       GCTCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGA 129
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Clone distribution: MGC clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONETECH Laboratories, Inc
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Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
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1 (bases 1 to 876)
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602250524F1 NIH_MGC_81 Homo
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205
                                                                                                                                                                                                                                                                                                                                                                                                  clones and was constructed by Clontech Alto, CA)."
                                                                                                                                                                                                                                                                                                                                                                                                                                5'-ATTCTAGAGGCCGAGGCGGCCGACATG-dT(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.55 kb (range 1.0-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /Glone=TMAGE:4338268"
/Glone_lib="NIH_MGC_81"
/Glone_lib="NIH_MGC_81"
/Iab_host="DHINB (TI phage-resistant)"
/note="organ: muscle (skeletal); Vector: pDNR-LIB
(Clontech); Site_1: SfiI (9gccgcctcggcc); Site_2: SfiI
(9gccattatggcc); 5' and 3' adaptors were used in cloning
as follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and 3' adaptor sequence:
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/db_xref="taxon:9606"
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94.2%;
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Email: cgapbs r@mail.nih.gov
Tissue Procurement: Elisabeth Paietta, Jonathan D. Licht, M.D.,
Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: Li
Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The
I.M.A.G.E. Consortium DNA Sequencing by: Washington University
Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -40UP from Gibco
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similar to
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       175
/clone="IMAGE:2573992"
/clone=lib="NCI_CGAP_CML1"
/clone_lib="NCI_CGAP_CML1"
/tissue_type="myeloid cells, 18 pooled CML cases, BCR/Ai
rearrangement positive, includes both chronic phase and
myeloid blast crisis"
/lab_host="DHIOB"
/lab_host="DHIOB"
/note="Organ: whole blood; Vector: pCMV-SPORT6; Site_1:
SalI; Site_2: NotI; Cloned unidirectionally. Primer:
Oligo dT. Library constructed by Life Technologies."
a 126 c 130 g 201 t
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NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573092

9 gb:X16150_cds1 L-SELECTIN PRECURSOR (HUMAN);, mRNA
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                                                                                                                                    mRNA sequence.
BF243091
BF243091.1 GI:11157019
EST.
                    Contact: Robert Strausberg, Email: cgapbs-r@mail.nih.gov Tissue Procurement: ATCC
                                                 NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
Unpublished (1999)
                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
1 (bases 1 to 881)
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Library Preparation: CLONETECH Laboratories, 1 Library Arrayed by: The I.M.A.G.E. Consortium
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution of the I.M.A.G.E. Consortium/I http://image.llnl.gov plate: LicM982 row: e column: 11
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/clone_lib="NIH_MGC_55"
/tissue_type="from acute myelogenous leukemia"
/lab_host="DH10B (TI phage-resistant)"
/note="Organ: bone marrow; Vector: pDNR-LIB (Clontech);
Site_1: SfiI (ggccgcctcggcc); Site_2: SfiI (ggccattatggcc); Site_1: SfiI (ggccattatggcc); Site_2: SfiI (ggccattatggcc); Double-stranded cDNA was prepared from cell line RNA.
5; and 3; adaptors were used in cloning as follows: 5;
adaptor sequence: 5'-CACGGCCATATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGGCCAGCGCGCACATG-dT(30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.9-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratorles (Palo Alto, CA)."
46 a 184 c 199 g 251 t 1 others
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                                                                                         ACCTGCAGCACACCACACTTT-GGCAAGGACCTTGAGACCCTTGTGCTAAGTCAAGA 83
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вс531689.1
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Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene
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602560237F1 NIH_MGC_61
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http://image.llnl.gov
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unpublished (1999)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
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1 (bases 1 to 946)
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                                                                                                                                                                                                                                                                                          /tissue_type="embryonal carcinoma"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: testis; Vector: pDNR-LIB (Clontech); Site_1:
Sfil (ggcgcttggcc); Site_2: Sfil (ggcattatggcc);
Sfil (ggcgcttggcc); Site_2: Sfil (ggcattatggcc);
Double-stranded cDNA was prepared from cell line RNA. 5'
and 3' adaptors were used in cloning as follows: 5'
adaptor sequence: 5'-CACGGCCATMATGGCCC-3' and 3' adaptor
sequence: 5'-ATMCTGAGAGGCCGAGGCGGCGACAGG-dT[30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.75 kb (range 0.9-4.0 kb). 15/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech
Laboratories (Palo Alto, CA). Note: this is a NIH_MGC
                                                                                                                                                                                                                                                             Library."
a 186 c
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/clone_lib="NIH_MGC_61"
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/db_xref="taxon:9606"
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Pred. No. 1.9e-110;
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                             This clone is available royalty-free through LLNL; MAGE Consortium (info@image.llnl.gov) for further i Seq primer: -40ml3 fwd. ET from Amersham High quality sequence stop: 473.
                                                                                                                            4444 Forest Park Parkway,
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                        Lizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R. WashU-NCI human EST Project

"Dnublished (1997)
                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1. (bases 1 to 575)
                                                                                                                                                                                                                                                                                                                                                                                                                            ab94c05.s1 Stratagene lung (#9
IMAGE:854600 3', mRNA sequence
AA669146
                                                                                                                                                                                                                                                                                                                                                                                                EST
                                                                                                               Email: est@watson.wustl.edu
                                                                                                                                                                                 Washington University
                                                                                                                                                                                               Contact: Wilson RK
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/organism="Homo
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REFERENCE
AUTHORS
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BG236008/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGGGTTTTGCTGTTTTATGAGACCCATTCCTATTCTTATAGTCAATGTTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATCTCATGAGTGCCAAGCAAAAGGAGAGAAGAGAAATAGCCTGCGCTGTTTTTTAGTT
                                                                                                                                                                                mRNA sequence.
BG236008
BG236008.1 GI:
EST.
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: M. Bento Soares, Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
                                                     Tumor Gene Index
Unpublished (1997)
                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; 1 (bases 1 to 567)
                                                                                                                                                                                                                                      BG236008 567 bp n
naf20hll.xl Soares_NPBMC
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                                                                                 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anat
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/clone="IMAGE:854600"
/clone_1ib="Stratagene lung
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C Homo
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cDNA clone
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IMAGE:4141700
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                                                                                                                                                                                                                                                                                                                                                                                          TTAGTAAGAAAACATCACTGAAATGCTAGCTGCAAGTGACATCTCTTTGATGTCATATGG
                                N72396 465 bp mRNA EST 02-APR-1996 yv39c11.rl Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:245108 5' similar to gb:X16150_cds1 L-SELECTIN PRECURSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
info@image.linl.gov
Seq.primer: -40UP from Gibco
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                     mRNA sequence
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                                                                                                             ACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCT
                                                                     ATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTA----CCTTCATCTGCTCAGAAGGA 1004
                                                                                                                                                                       TGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCT 768
                                                        ATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGNACNTTCNTTCATCTGCTCATAAGGA
                                                                                                                                                                                               TTGGAAACTTCAGCTTCA-NTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAA 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holma,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons, Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterst,R., Williamson,A., Wohldmann,P. and Wilson,R.

The WashU_Merck_EST Project
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unpublished (1995)
Contact: Wilson RK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: est@watson.wustl.edu
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                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                 /db_xref="taxon:9606"
/clone="IMAGE:245108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          clone_lib="Soares fetal liver spleen lNFLS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Homo sapiens"
/db_xref="GDB:3794354"
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Pred. No. 4.8e-104;
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327 ATACAAAACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCCCTTCAGTCGTTCTTAC
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                                                                                                     CCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCC
                                                                                                                                                                             TGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTGGGGGGTGGACAATGCTC
                                                                                                                                                                                                                                        TCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAA 146
                                              CCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCC
                                                                                                                                                                TGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTGGGGGGTGGACAATGCTC
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Chinese National Human Genome Center at Shan Chinese National Human Genome Center at Shangsiang Hi- Tech Location/Qualifiers
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AV737434
AV737434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tel: 86-21-64740490
Fax: 86-21-64743206
Email: mbshi@ms.stn.sh.cn
This clone is available at Shanghai Hematology Institute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: 2hu Chen
Shanghai Institute of Hematology, Rui-Jin Hospital
197 Rui-Jin II Road, Shanghai 200025, P. R. China
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zhang,Q., Ye,M., Wu,X., Gu,J., Huang,Q., Chen,S., Mao,M. and Chen,Z.
Homo sapiens CB library cDNA clones
Unpublished (2000)
                                                                                                                                                                                                                                                                                                 Similarity
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1. (bases 1 to 552)
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                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                     /note="Vector: pBluescript; Site_1: EcoRI; cloned randomly with the EcoRI digestion" a 120 c 149 g 112 t 5 others
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                                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="cord blood"
/cell_type="CD34+ hematopoietic stem/progenitor cell"
/lab_host="BM25.8"
                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="CBCCEF10"
/clone_lib="CB"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/db_xref="taxon:9606"
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93.8%;
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                                                 GGTGAAAGAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAAA 1316
                               GGACTGCGT-GGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACG
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Email: cgapbs-r@mail.nih.gov
Life Technologies catalog #: 11547-015
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortum/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1308 Std Error: 0.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AI434388 478 bp mRNA EST 30-MAR-1999 ti48g06.xl NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2133754 3'similar to gb:X16150_cds1 L-SELECTIN PRECURSOR (HUMAN);, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 478)
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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Location/Qualifiers
                                                                                               Conservative
                                                                                                                                                                                     /note="Organ: lymph node; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.25 kb. Life Technologies catalog #: 11547-015"

9 9 9 139 t 1 others
                                                                                                                                                                                                                                                                                                             /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2133754"
/clone_lib="NCI_CGAP_Lym12"
                                                                                                                                                                                                                                                                       /lab_host-"DH10B"
                                                                                                                                                                                                                                                                                                   /tissue_type="lymphoma, follicular mixed
                                                                                                         17.8%;
97.1%;
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Pred. No. 4.5e-103;
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                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL;
IMAGE Consortium (info@image.llnl.gov) for further i
Insert Length: 1429 Std Error: 0.00
Seg primer: -40UP from Gibco
High quality sequence stop: 458.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tumor Gene Index Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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      189
/note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NbHL19W, testis NHT, and B-cell NCI_CGAP_GCB1) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 297480-302087, 682632-687239, 726408-728711, and 729096-731399. Subtraction by Bento Soares and M. Fatima Bonaldo. "
                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2331078"
/clone_lib="Soares_NFL_T_GBC_S1"
/lab_host="DH10B"
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Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM1&t2=CM1-MT0238
141200-653-a12&t3=2000-12-14&t4=1)
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                                                                                                                             Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 and
                                                                                                                                                                                                                                                                           Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
                                                                                                Tel: +55-11-2704922
                                                                                                                                                                             Contact: Simpson A.J.G.
                                                                                                                                                                                                                            sequence tags
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                                                                                                                                                                                                                                                            Simpson, A.J.
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Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S.,
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          ACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAAGAAGA 1026
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note="Organ: marrow; Vector: puc18; Site_1: SmaI, Site_2: SmaI, A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196, 716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /dev_stage="Adult"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ity sequence stop:
Location/Qualifiers
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Pred. No. 2.8e-101;
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403
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Search completed: October 13, 2001, 00:33:41 Job time: 4520 sec

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Database
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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                                                       TCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATCATGGAACCTACT
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Bowen, B.R., Nguyen, T. and Lasky, L.A.
Characterization of a human homologue
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/db_xref="texon:9606"
/tissue_type="peripheral lymph node"
/cell_type="lymphocyte"
/clone_lib="cDNA in lambda gt10"
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1080	AGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAAATCCTAGTCCAATATGTCAAA 	0 0	pb Qy
1020 1020	GCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGA -	961 961	D Qy
960	AGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCA	901 901	D _P
900	AAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACCAACC	841 841	Ωy
840 840	GCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAG	781 781	Db Qy
780 780	AGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCTTTGGAAACTTCA	7 7	Db Qy
720 720	ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTGTG		Db Qy
660	CTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATC	601	Db VQ
600	ATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAG	541	Qy db
540 540	. AGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAG	481	da Vo
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REFERENCE AUTHORS TITLE

human. Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo. 1 (bases 1 to 2354) Siegelman, M.H. and Weissman, T.L. Siegelman, M.H. and Weissman, T.L.

de homing receptor m 87182 azoa; Chordata; Cran
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21 CTCCTCAACCCCACGGGCCCCCAGCACACTGGAATTC 2259
2101 AAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAATGAAATG
2041 TTAGTAAGAAAACATCACTGAAATGCTAGCTGCAAGTGACATCTCTTTGATGTCAT
1981 TTCCTTTTATGAGACCCATTCCTATTCTTTATAGTCAATGTTTCTTTTATCAC
1921 AGCAAAAGGAGAGAGAGAGAGAGACGCGCGCGCGCTTTTTTAGTTTGGGGGTTTTGC
1861 CTTCAGCCACCTCTCTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGAGTGCCA
1801 TAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGGCTTCAGGCCTCCCCACCTT
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1681 TTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCCCTTC
1621 AAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCJ
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1501 GACCATAAGGGAAAGGATTCATGTGGAATATAAAGATGGCTGACTTTGCTCTTTCAC
1441 CCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAA
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FSSQCAFSCSSGTNLTGIEETTCGFFGNWSSPEPTCQVIOCEPLEAPDLGIMNCSHPL
ASFSFTSACTFICESGTELIGKKKTICESSGIMSNPSPICQKLDKSFSMIKEGDYNPL
FIPVAUMYTAFSGLAFIIWLARRLKKGKKSKRSMNDPY"
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116. .12
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/db_xref="taxon:9606"
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/note="lymph
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elman, 02-JUN-1989.
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                             GCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCAT-AAGGGAAAGGATTCAT 1522
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REFERENCE
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Leu-8/TQ1 is the human ed
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/product="Leu-8 antigen short form"
/proteth_id="CABA3537.1"
/proteth_id="CABA3537.1"
/db_xref="GCI:4902830"
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AHHGTDCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWI
                                                                                            /evidence=experimental join(1..1078,1515..2323) /note="short form"
                                                                                                                                                                                                                                                                                                              glycoprotein;
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join(50. .1078,1515. .1577)
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/db_xref="taxon:9606"
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//BD_XTef="GI:4902829"
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/note="Leu-8 is the human homologue
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Sequence
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Tedder.T.F. and Spertini,O.G.
Anti-LAM 1-3 antibody and hybridoma
Patent: US 5776775-A 1 07-JUL-1998;
Location/Qualifiers
1. .2330
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1303 1266	TTAAATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAA . 	1244 1207	Qy Db
1243 1206	TTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGA	1184 1147	Оу
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883 846	CTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACC	824 787	Дb
823 786	CCCTTTGGAAACTTCAGCTTCAGCTCACGTGTGCCTTCAGCTGCTCTGAAGGAACAAA 		Ωy
763 726	CTTGTGATTCAGTGTGAGCCTTT TTTGTGATTCAGTGTGAGCCTTT	δ C	Db Qy
703 666	GAAATCATCAATAATCACACCTGCAACT 		ду Дъ
643 606	AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGC 	-44	Db Qy
583 546	TCAAGAGAAACAAAGATGCAGGCAAATGGAACG 		Дb
523 486	GAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAACAAGGAGAGACTGCGTGGAGATCTA 	464 427	рь Оу
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2099	TCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAATGA	2040	Db
2141	CTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAATGA	2082	Qy
2039	TTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAATGCTAGCTGCAACTGACA	1980	Ъ
2081	TGACA	2022	Qy
1979	Η-	1920	Db
2021	AGTTTGGGGGGTTTTGCTGTTTTATGAGACCCATTCCTATTTCTTATAGTCAATGT	1962	Qy
1919	ATGAGTGCCAAGCAAAAGGAGAGAGAGAGAGAGAGAGACCTGCGCTTTTTTT	1860	рь
1961	CATCTCATGAGTGCCAAGCAAAAAGGAGAGAGAGAGAGAATAGCCTGCGCGGTTTTTTT	1902	Ωу
1859	CTTCA-GCCTCCCCACCTTCTTCAGCCACCTCTTTTTCAGTTGGCTGACTTCCACACC	1801	В
1901	AGGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACC	1842	Qу
1800	AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGG	1741	Db
1841	- G	1782	Qy
1740	AAGTCTACGCTCTCCTTTCTTAACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA	1681	Db
1781		1722	Qy
1680	AAATTTCGCGTCGTCTTCTGTATAC-GTGGAGGTACACTCTATGAAGTCAA	1627	DЬ
1721	ATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCA	1662	Qy
1626	ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA	1567	Ъ
1661	ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA	1602	Qy
1566	GACTTTGCTCTTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAG	1507	DЪ
1601	GACTTTGCTCTTTGACTCTTGTTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAG	1542	Qy
1506	CTGAGGAGAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATGGCT	1447	Db
1541	TGAGGAGAAACAAAT	1483	Qy
1446	CTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTTGTCTTTT	1387	Db
1482	TTATCCCTCAACCCCCAGCCCAAAGGTGTTTATACAGCTCAGCTTTTTTGTC	1423	Qy
1386	AGTGCATCTGGGAAGATTTCTACCTGACCAACAGTTCCTTCAGCTTCCATTTCACC	1327	DЬ
1422	CAGTGCATCTGGGAAGATTTCTACCCGACCAACAGTTCCTTCC	1363	Qy
1326	TCCTTCCATGAAACGTTTTGTGTGGGGGCACCTCCTACGTCAAACATGAAGTGTGTTTCC	1267	Db
1362	TCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTG-TTC	1304	Qγ

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Chimeric selectins as simultaneous blocking agents selectin function
Patent: US 5808025-A 1 15-SEP-1998;
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82 AAGAGTCCTATTTGCACTGTAGCCTCGCGGTCTTGAATTGGACCATCCTATTTAACTGG 18	Qy 1
/22 AAGICTACGCTCTCCTTCTTCTAACTCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA 1/ 	Db 1
662 GATICAAATTICACGITGTCTTCTGTATACTGTGGAAGGTACACTCTTATAGAAAGTTCAAA 1/	
602 ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA 166 [
CAG 16 CAG 15	, Qy 1
1483 CTGAGGAGAAACAAATAAGACCAT-AAGGGAAAGGATTCATGTGGAATATAAAGATGGCT 1541	Qy 1
rCTTTT 1	Qy 1
1363 TTCAGTGCATCTGGGAAGATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCCC 1422	Qy J Db J
1304 TCCTTCCATGAAACGTTTTGTGTGGGGGGCACCTCCTACGTCAAACATGAAGTGTG-TTCC 1362 	Qy 1
1244 TTAAATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAA 1303 -	Qy]
1184 TTGGCTGGCAAGGAGATTAAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGA	Qy 1
1124 CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCAT 1183	Qy]
1064 TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGGTGATTATAA 1123 	Qy 1 Db 1
1004 AACTGAGTTAATTGGGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC 1063 	Qy 1 Db
944 TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG 1003 	Qу
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Tedder, T.F. and Kansas, G.S.

Use of chimeric selectins as simultaneous blocking agents component selectin function
component selectin function
Patent: US 5834425-A 110-NOV-1998;
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Tedder, T.F. and Spertini, O.G.
Methods of blocking adhesion with anti-lami-3
Patent: US 5679346-A 1 21-OCT-1997;
Location/Qualifiers
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 2330)
Tedder,T.F.
Direct Submission
Submitted (09-NOV-1989) Tedder T.F
2 (bases 1 to 2330)
Tedder,T.F., Isaacs,C.M., Ernst,T.J., Demetri,G.D., I
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/tissue_type="tonsil"
/clone_lib="lambda gt11"
/clone="pLAM-1"
92. .1210
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ASFSFTSACTFICSEGTLIGKKTICESGGIWSNESPICQKLDKSFSNIKEGDYNPL

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1146	1124 CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTATCAT 1
1123	1064 TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGGGGGATTATAA 1
1063	1004 AACTGAGTTAATTGGGAAGAAGAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC 1
1003	944 TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG 1
943	884 AACCIGICAAGIGATICAGIGIGAGCCICTATCAGCACCAGAITITGGGGATCAIGAACIG 9
383	824 CTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACC 8
323	764 CCCCTTTGGAAACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA 8 +
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703	644 AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCA 7
543	584 AGCCCTCTGTTACACAGCCTCCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT 6
546	524 TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC 5
523	464 GAACTGGGGAGATGGTGAGCCCAACAAGAAGAAGAACAAGGAGGAGTGCGTGGAGATCTA 5
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343	284 GGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGA 3
283	224 ACATCATGGAACCTACTGCTGGACTTACCATTATTCTGAAAACCCATGAACTGGCAAAG 2
223	164 GGACTTATGGAACATCTTCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGC 2
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AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGG	74	Db .	
AAGTCTACGCTCTCCTTTCTTACCTCCAGTGAAGTAATGGGGTCCTGCTCAAGTT AAGTCTACGTCTATTCTTACCTCTTTCTTAACTCCAGTGAATTGGACAATTCTAATTTAACTCTAAGTT	1681	Db Db	
AAGTCTACGCTCTCCTTTCTTACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTT	1722	Qy	
ATGAAGT	62	Db x3	
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CTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATGGC	1447	DЬ	
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TCAGTGCATCTGGGAAGATTTCTACCTGACCAACAGTTCCTTCAGCTTCCATTTCACC	1327	DЬ	
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           ACCTACTGCTGGACTTACCATTATTCTGAAAAACCCATGAACTGGCAAAGGGCTAGAAGA
                                                 AACATCTTCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATGATGA
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Fieger,C.B.
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Direct Submission
Submitted (04-SEP-1999) Fiegereien Universitaet Berlin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens mRNA for leucocyte adhesion receptor, L-selectin. AJ246000
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mmalia; Eutheria;
(bases 1 to 1569)
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GTMCTHPLGNESFSQCAFSCSGGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLS
APDLGIMNCSHPLASFSGTAACTFICSEGTELLGKKKTICESSGIWSNPSPIQQKLDK
SFSMIKEGDVNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSMNDPY"
37. 189
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190. .
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/function="leucocyte
/codon_start=1
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37. .1194
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/tissue_lib="Raji cDNA library
/cell_type="burkitt lymphoma"
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/db_xref="taxon:9606"
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99.4%;
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1569)
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Primates;
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0; Mismatches
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lin, Institut
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(Clontech HL)
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Submitted (21-MAR
Inc., 2375 Garcia
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1 (bases 1 to 1510)
Tsurushita, N., Fu, H. and Berg, E.L.
PCR cloning of the cDNA encoding b
Gene 181 (1-2), 219-220 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Papio cynocephalus anubis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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2375 Garcia Avenue, Mountain View,
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COWSCSGHGECVEIINNTCNCOVGYYCGOQCGYIQCEPLEPRLGTMCCTHPLGDFS
COWSCSGHGECVEIINNTCNCOVGYYCGOQCGYIQCEPLSAPDLGIMNCSHPL
ASFSFSSACTFSCSEGTELIGEKKTICESSGIWSNPDICQKLDRSFSMIKEGDYNPL
ASFSFSSACTFSCSEGTELIGEKKTICESSGIWSNPDICQKLDRSFSMIKEGDYNPL
FIPVAVIVTAFSGLAFILWLARRLKKGKKSKKSMDDPY"

328 c 349 g 366 t
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/sub_species-"anubis"
/db_xref-"taxon:9555"
79...1197
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Pred. No. 0;
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TTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCATTTGGCTG
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            ATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTG 188
                                                           1108;
ATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTG
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Eukaryota;
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Tsurushita, N.
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GPWSCSGHGECVEIINNYTCNCDVGYYGPQCQFYIQCEDLEAPELGTMCTHPLGNES
FSSQCAFSCSGTNLTGIEETTCGPFCNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPL
ASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDKSFSMIKEGDYNPL
FIPVANWTAFSGLAFIIWLARRLKKCKKSKRSMDDPY"

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Location/Qualifiers
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Sutheria; Primates; Catarrhini; Hominidae;
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                                                                                                                               ACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGAC
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Best Local Similarity 98.3
Matches 1098; Conservative
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                                                                            GTGGGAACCAACAAATCTCTCACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCCAAC 488
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                              AACAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGC 548
                                                              GTGGGAACCAACAATCTCTCACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCAAC
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U73729.1
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Pongo.

1 (bases 1 to 1119)
Budman,J.I., Fu,H., Johnson,C.E., Thakur,A.B., Berg,E.L. and
Tsurushita,N.
Cloning of the cDNA encoding L-selectin from nonhuman primates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Submitted (08-OCT-1996) Protein Design Labs, Avenue, Mountain View, CA 94043, USA
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Tsurushita,N.
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233 c 273 g 277 t
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/db_xref="taxon:9600"
1. .1119
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Pred. No. 1.5e-288;
0; Mismatches 21; Indels 0;
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Budman, J.I., Fu, H., Tsurushita, N. Direct Submission Submitted (08-OCT-1 Avenue, Mountain Vi
loning of the cDNA encoding L-selectin from non npublished (bases 1 to 1119)
ercopithecinae; Macaca. (bases 1 to 1119) udman,J.I., Fu,H., Johnson,C.E., Thakur,A.B.,
rhesus monkey Macaca mulatt; Eukaryota; Met Mammalia; Eutl
мU73730 acaca m 73730 73730.1
1209 GGCAAGAAATCCAAGAGAAGTATGAATGACCCATATTAA 1247
TGGTTACTGCATTCTCTGGGTTGGCATTTATCATTTGGCTGGC
1089 AAAAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCTCTTCATTCCAGTGGC.
1029 ACCATTTGTGAATCATCTGGAATCTGGTCAAAATCCTAGTCCAATATGTCAAAAAT
969 TTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGG
909 CCTCTATCAGCACCAGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCAGCCTTCAGC
849 TGTGGACCATTTGGAAACTGGTCATCTCCAGAACCAACCTGTCAAGTGATTC.
789 TCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAG
729 GAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCTTTGGAAACTTV
669 AACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTG
609 CAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTGAGAAATCATCAATAATC/

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                       GAGCCCCGAAGCTGGGTACCATGGACTGTACTCACCCTTTGGGAGACTTCAGCTTCAGC
                                                                                                                                 TGTGGACCATTTGGAAACTGGTCATCTCCAGAACCAACCTGTCAAGTGATTCAGTGTGAG
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                                                                                                                                                                                                    CAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATCACACCCTGC 668
                                                                                                                                                                                                                                                         AAATGGAACGATGACGCTGCCACAAACTAAÄGGCAGCCCTCTGTTACACAGCCTTCTTGC
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ESSQCAPNCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEBLSADDLGIMNCSHPL
ASFSFSSACTFSCSEGTELIGEKKTICESSGIWSNPNPICQKLDRSFSMIKEGDYNPL
FILVANWTAFSGILAFILMLARRLKKGKKSKKSMDDPY"
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Pred. No. 1.3e-280;
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/dev_stage="adult"
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                                                      /translation="MIFPWKCQSPQRGLWNVFKLWVWATLCCDFLAYHGTNCWTYHYS EKPMKWERARKECRENYTDLYAIQNKCBIEYLEKTLPFSRSYWIGIRKIGNIWTWVG TNKSLTAEAENWGEGEPNNKKTKEDCVEIYIKLRDSGKWNDDSCQKKAALCYTASCHPGSCSGHGECVEVINYTCSCDVGYVGPQCQFVMQCEPLEAPELGTMACTALGEFS FSSQCGFSCLEGTNLTGIEETTCGPLGNWSSLRPTCQVIQCEPLTAPDLGTIDCSHPR AVFGFTSTCTFSCSEGAELIGNKKTVCGSSGIWSSPTPKCQKVDRSFSNIKEGDYNPL
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        TTCAATTCAGTGCTGTACTTGATGACA-GACACTTCTAAATGAAGTGCAAATTTG 1627
                                                       ATACAGCTCAGCTTTTT----GTCTTTTCTGAGGAGAAACAAATAAGACCATAAGGG-AA
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TTCAACTCAGTGCTGTGCCTGACAGCATAACACTTGGAAATACAGTGAAAATTTG
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Search completed: October 13, 2001, 01:41:07 Job time: 8562 sec

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AAR38908
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HuLHR. Homo sapie
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98.1	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.8	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3		•	•	•	•	•	99.5	•	•		•		•	•	
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AAW21657	AAR56663	AAR34197	AAY96138	AAW86199	AAW80452	AAR91442	AAR20815	AAR98125	AAR98128	AAR98126	AAR98130	AAR98127	AAR98135	AAR98134	AAR98132	AAR98131	AAR98129	AAR98133	AAR98114	AAR98109	AAR98123	AAR98120	AAR98118	AAR98116	AAR12469	AAR98121	AAR98117	AAR98112	AAR98111	AAR22802	AAR98119	AAR98113	AAR98110
Human lymphocyte-a	L-selectin. Homo	Sequence encoded b		Human Leu8 antigen	Human Leu8 antigen	Human Leu8 antigen	O		_			lymphocyte		lymphocyte	lymphocyte					lymphocyte	lymphocyte		lymphocyte	lymphocyte	lyphocyte c	lymphocyte		lymphocyte	lymphocyte	lymphocyte	lymphocyte	Lymphocyt	Human lymphocyte c

ALIGNMENTS

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RESULT
AAR37960
 Peptide
                                                                                                                                                                                                                HuLHR; lymphocyte binding inhibition; lymphoma metastasis;
transplant rejection; inflammation.
          Modified-site
                                                                                      Modified-site
                                                                                                        Modified-site
                                                                                                                           Domain
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                                                                                                                                                                                                                                             Human Lymphocyte Homing Receptor
                                                                                                                                                                                                                                                               08-OCT-1993 (first entry)
                                                                                                                                                                                                                                                                                    AAR37960;
                                                                                                                                                                                                                                                                                                      AAR37960 standard; Protein; 372
                            Region
                                               Modified-site
                                                                   Domain
                                                                                                                                              Protein
                                                                                                                                                                                             Homo sapiens
                             /note= "I
                                               /label= EGF_domain
177..179
                                                                                    /label- Lectin_domain
60.62
/note- "potential N-glycosylation site"
104.106
                                                                                                                          39..372
/note= "Trp39 is probable N-terminus of mature LHR" 39..155
          /label- Complement_Binding_Repeat_1 216..218
/note=
                                                                   160..193
                                                                                                                                                                          Location/Qualifiers
                                                                            note-
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"potential N-glycosylation site"
                                     "potential N-glycosylation site"
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human and rejection
                                                                                                                                                                                                                                                                 Sequence
   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
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31-OCT-1991;
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                                                                                                                             61
                                                                                                                                            ncdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcafscsegtnltgieett
             NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                             {\tt nkknkedcveiyikrnkdagkwnddachklkaalcytascqpwscsghgecveiinnhtc}
                                                          NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                                             1993-188588/23.
DB; AAQ43154.
                                                                                                                                                                                                   al Similarity
372; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fig 1 and Fig 3; 32pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       murine lymphocyte homing receptors to treat graft and inflammation - comprise carbohydrate binding, growth factor and complement binding domains
                                                                                                                                                                                                                                                               372 AA;
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333..355
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356..372
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271..273
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Pred. No. 5.4e-141;
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The sequences cell surface of

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in AAR38908-09 represent human and rotein (LHR) respectively. These p

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RESULT
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ID ANAS 38908
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                                                                                                                                                                                                                                                                                                                                                    23-FEB-1989;
22-NOV-1989;
16-DEC-1991;
                                                               Disclosure; Fig 1; 44pp;
                                                                                                        New lymphocyte homing receptor immunoglobulin polypeptide(s) - used to inhibit binding of ly therapeutic and diagnostic uses
                                                                                                                                                                                                                                                                 Capon DJ,
                                                                                                                                                                                               N-PSDB; AAQ44243.
                                                                                                                                                                                                                      WPI; 1993-226664/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; murine; lymphocyte; cell surface glycoprotein; homing receptor; LHR; endothelium; lymphoid tissue; signal; domain; complement binding; carbohydrate binding; epidermal growth factor-like; egf; intracellular; transmembrane binding; cytoplasmic; ligand binding partner protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                          23-FEB-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-JUL-1993
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89US-0440625
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356..372
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39..155
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                                                                                                                                                    Key
Peptide
                                                                                                                                                                                                                                                                                  Lymphocyte homing receptor; lymphocyte cell surface glycoprotein; LHR; ligand binding partner; immunoglobulin; constant region; antibody engineering; immunomodulator.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gkkskrsmndpy 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
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39..372
label- N
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/note- "
                                                                                                                                                    Location/Qualifiers 20..32
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                                                " Sig_peptide
"hydrophobic domain, may
for insertion into the
réticulum lumen"
Mat_protein
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Pred. No. 5.4e-141;
; Mismatches 0;
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Best Local Similarity
Matches 372; Conserv
                                                                                                                                                                                                                                                                                                                                                 23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
                                                                                                                                                                                            A murine Mel 14 antigen cDNA clone was used to screen a lambda gtl0 cDNA library derived from human peripheral blood lymphocyte mRNA obtd. from primary cells. A cDNA clone encoding LHR was isolated.
                                                                                                                                                                                                                               Disclosure; Fig.la-lc;
                                                                                                                                                                                                                                                          New hybrid ligand binding constant region sequences
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                        NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                     YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
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89US-0315015.
91US-0808122.
92US-0986931.
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60..62
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177..179
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271..27
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311..313
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to increase stability and
                                                                                                                                 0;
                                                                                                                                 ; Score 2116;
; Pred. No. 5.4
0; Mismatches
                                                                                                                                                                                                                               English.
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5.4e-141;
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                                                                                                                                  Indels
                                                                                                                                                Length 372;
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to
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RESULT
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XX ARB
XX LYMP
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KW Vect
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22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide
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              89US-0440625.
89US-0315015.
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216..218
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177..179
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                                                                                                                                                                                                                                                                                                                                                         /note= "potential stop trans 60..62 /label= N-glycosylation_site
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/label= (
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197..317
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RESULT
AAR98106
ID AAR9
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AC AAR9
DT 31-0
XX Inmuu
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Best Local S
Matches 372
                             Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation
                    metastasis.
                                                                                           31-OCT-1996
                                                                                                                AAR98106
                                                                                                                                   AAR98106 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A mouse LHR (lymphocyte cell surface glycoprotein) cDNA clone was us to screen an oligo-dT primed lambda gtl0 cDNA library derived from human peripheral blood lymphocyte mRNA obtd. from primary cells. A 2.2 kb clone (sequence given in AAT05869) was isolated that encoded human LHR protein (AAR83050). LHR-IgG hybrids were constructed for in the targeting of therapeutic moieties to lymphoid tissue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Expression vector encoding fusion protein to increase plasma life comprises receptor ligand binding site and Ig constant region, for treatment of receptor mediated disease
                                                                                                                                                                                                           361
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                                                                     lymphocyte
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                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                     cell
                                                                                                                                    Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                                     surface
                                                                                                                                    372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                    glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 2116;
Pred. No. 5
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                           rejection; inflammation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .4e-141;
                                                                    (HuLHR).
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180 180 120

360 360 300

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Best Local S
Matches 372
                                                                                                                            immunoglobulin super family, nor a multiple subunit polypeptide
cencoded by discrete genes. The hybrid immunoglobulin chain combines
the adhesion/targetting of a ligand binding partner (LBP) with the
ceffector functions of immunoglobulin and can bind to and/or activate
concern than one ligand. It can be used diagnostically for the in
cylino assay of LBP and their targets; or therapeutically to deliver
LBP such as toxins, enzymes, growth factors to particular cells.
Typical applications are as antiviral, neuromodulating and
immunomodulating agents, or as modulators of cell adhesion (e.g. in
treating graft rejection; inflammation; metastasis of lymphoma etc.)
The immunoglobulin component increases plasma half life and
facilitates purification while deletion of the transmembrane region
facilitates recovery, improves aqueous solubility and removes
potentially immunogenic epitopes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                                                                                                                                                        A hybrid immunoglobulin chain comprising the ligand binding site a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of
                                                                                                                                                                                                                                                                                                                                              Nucleic acid encoding hybrid immunoglobulin comprising binding site of a receptor fused to Ig constant region diagnosis and treatment e.g. of inflammation
                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Binding-site
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  61
                                                                      Local Similarity
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                 YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
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ilarity 100.0%;
Conservative 0
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89US-0315015.

91US-0808122.

92US-0986931.

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333..355
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197..258
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1..38
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39..155
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160..193
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                                                           Score 2116;
Pred. No. 5.4
0; Mismatches
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                                                           Indels
                                                                              Length
                                                                                                                                                                                                                                                                                                                                                          the ligand - useful for
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23-FEB-1989;
19-DEC-1991;
08-DEC-1992;
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                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                                                                                                                                                                                                           accumulation
                                                                                                                                                                                                                                                                                                                                                                  lymphocyte homing receptor; LHR; HuLHR; organ; graft; rejection; treatment; inflammatory disorders; rheumatoid arthritis; autoimmune diseases; lymphoma metastasis; control; lymphocyte;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAW37781 standard; Protein;
                                                                      03-FEB-1998
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                                                  23-FEB-1989;
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 89US-0440625.
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335..357
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271..273
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232..2
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177..179
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                                                                                                                                                                                                                                                                          "potential N-linked glycosylation
                                                                                                                                                                                                                                                                                              "potential signal sequence"
                                                                                                                                 "potential N-linked glycosylation site"
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Best Local 9
        Human lymphocyte homing receptor
                              02-FEB-1999
                                                AAW73264;
                                                                 AAW73264 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequence is that of a human lymphocyte homing receptor (LHR) which may be used in the construction of a chimeric molecule comprising an LHR fused at its C terminus to the N terminus of an immunoglobulin constant region. This can be used for the prevention of lymphocyte attachment to endothelial cells. Such a method may be used for preventing organ or graft rejection, for treating inflammatory disorders, e.g. rheumatoid arthritis or other autoimmune diseases, for controlling lymphoma metastasis and for treating conditions in which there is an accumulation of treating conditions in which there is an accumulation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Fig 1; 43pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Prevention of lymphocyte attachment to endothelial cells chimeric molecule comprising lymphocyte homing receptor a
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26-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               immunoglobulin constant region
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                                                                                                                                                                                                       CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                                                                                                                                                                                              GKKSKRSMNDPY 372
                                                                                                                                                                                            cgpfgnwsspeptcqviqceplsapdlgimncshplasfsftsactficsegteligkkk 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                372 AA;
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                            (first entry)
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95US-0451848.
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Pred. No. 5.4e-141;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                   invention. LHR is a lymphocyte cell surface glycoprotein that mediates the binding of lymphocytes to the endothelium of lymphoid tissue. Soluble LHR polypeptides, lacking signal peptide (amino acids 1-38), acids 1-38), and cytoplasmic domain (amino acids 35-372), can be used therapeutically to compete with the normal binding of lymphocytes to lymphoid tissue and are especially useful for organ or graft rejection treatment protocols, for treating inflammations metastasis and for treating conditions involving lymphocyte accumulation. LHR polypeptides can also be used in assays for LHR, anti-LHR antibodies or competitive inhibitors of LHR activity, and for purifying anti-LHR antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-FEB-1989;
31-OCT-1991;
06-MAY-1993;
10-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1;
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N-PSDB; AAV08321.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence is the human lymphocyte homing receptor (LHR) of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GETH
                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lymphocyte homing receptor polypeptides - lymphocyte binding to lymphoid endothelium
                                                                                                                                       121 NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCOPWSCSGHGECVEIINNHTC
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                                   CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                       cgpfgnwsspeptcqviqceplsapdlgimncshplasfsftsactficsegteligkkk
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) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                  372 AA;
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                                                                                                                                                                                                                                                                                   Conservative
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91US-0786149.
93US-0059029.
95US-0513278.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Singer MS,
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Pred. No. 5.4e-141;
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16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
            A hybrid immunoglobulin chain comprising the ligand binding site a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain comb the adhesion/targetting of a ligand binding partner (LBP) with the
                                                                                                                                                                                                              Nucleic acid encoding hybrid immunoglobulin comprising binding site of a receptor fused to Ig constant region diagnosis and treatment e.g. of inflammation
                                                                                                                                                                         Disclosure; Page 19; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Binding-site
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diagnosis; therapy; drug delivery; antiviral; neur
immunomodulator; cell adhesion; graft rejection; i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human lymphocyte cell surface
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adhesion/targetting of a ligand binding partner (ector functions of immunoglobulin and can bind to
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89US-0315015.

91US-0808122.

92US-0986931.

94US-0185670.
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258..316
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159..192
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                                                                                                                                                                                                            Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation
                                                         Domain
                                                                                                                                                                                                                                                                                              Human lymphocyte cell surface glycoprotein (HuLHR) variant
                                                                                                                                                                                                                                                                                                                                     01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                AAR98115
                    Domain
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                                                                                                                                                       Homo sapiens
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                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                         /label= Signal 38..154
                                                                                                  Location/Qualifiers
1..37
                    /label= Lectin domain.
159..192
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99.78;
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                                                                                                                                                                                                                                                                                                                                                                                                                  371
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Pred. No. 1.4e-140;
                                                                         region
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240 241 180 181 120 121 60 61

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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                               A hybrid immunoglobulin chain comprising the ligand binding site of a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the effector functions of immunoglobulin and can bind to and/or activate more than one ligand. It can be used diagnostically for the in vitro assay of LBP and their targets; or therapeutically to deliver LBP such as toxins, enzymes, growth factors to particular cells.
                                                                                                                                                                                                                                                                                                                                                       Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc. The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                            facilitates recovery, improves aqueous solubility and removes potentially immunogenic epitopes. Variants of the human lymphocell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variant contains an Ile174Leu substitut
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid encoding hybrid immunoglobulin comprising binding site of a receptor fused to Ig constant region diagnosis and treatment e.g. of inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 19; 41pp; English.
    121
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KKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCN
                                                                           TDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNN 121
                                                                                                                                       IFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNY 61
                                                                                                                                                                                          370;
                                                                                                                       ifpwkcqstqrdlwnifklwgwtmlccdflahhgtycwtyhysekpmnwqrarrfcrdny
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                                                                                                                                                                                   Score 2109; DB 17;
Pred. No. 1.7e-140;
1; Mismatches 0;
                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                               substitution
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                                                                                                                                                                                                                                                                                                                               lymphocyte
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Disclosure; Page 19; 41pp;

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RESULT 1
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23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
              Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to Ig constant region - useful for diagnosis and treatment e.g. of inflammation {\bf r}
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                                                                                        (GETH ) GENENTECH INC
                                                                                                                                                                 23-FEB-1989;
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                                                                                                                                                                                                                                                                                                                                                                                         metastasis.
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                                                                      Lasky LA;
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91US-0808122.
92US-0986931.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 370;
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Best Local
                                                                          Sequence of (HuLHR).
                                                                                                                                                                                    AAR24026 standard;
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                Homo sapiens
                                             Lyphocyte cell
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                                                                                          human lymphocyte cell surface glycoprotein
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                                             surface glycoprotein; ligand binding protein
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                                                                                                                                                                                     Protein; 372
                                                                                                                        entry)
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99.7%;
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Pred. No. 1.7e-140;
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Matches 371;

Similarity

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Query Match
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                                                                                                                                                                                            LHR mediates the binding of lymphocytes to the endothelium of lymphoid tissue. Full length cDNA clones and DNA encoding the human and the murine LHR (HuLHR and MLHR, respectively) have been identified and isolated (see AAQ24987 and AAQ24988). LHR is a glycoprotein which contains the following protein domains: a signal sequence, a carbohydrate binding domain, and epidermal growth factor-like (egf) domain, at least one and preferably two complement binding domain repeat, a transmembrane binding domain (TMD), and a charged intracellular or cytoplasmic domain. LHR is used as the ligand-binding partner in fusion polypeptides with an immunoglobulin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Key
Peptide
Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleic acid encoding polypeptide fusions - comprising ligand binding partner protein and immunoglobulin chain, for use in diagnosis and therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 1-1 - 1-3; 43pp; English.
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22-NOV-1989;
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89US-0440625
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /label= see above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     104..106
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /label= potential N-linked glycosylation site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .313
99.78;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              above
Score 2109; DB 13;
Pred. No. 1.7e-140;
                          Length 372;
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RESULT 12
AAR98110
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      Nucleic ac
binding si
diagnosis
                                                                                           22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                         WPI;
                                                                          (GETH ) GENENTECH INC
                                                                                                                                                                 07-MAY-1996
                                                                                                                                                 23-FEB-1989;
                                                                                                                                                                                  US5514582-A
                                                                                                                                                                                                                                                                                                                                                                    diagnosis; thera
immunomodulator;
                                                                                                                                                                                                                              Domain
                                                                                                                                                                                                                                              Binding-site
                                                                                                                                                                                                                                                                Binding-site
                                                                                                                                                                                                                                                                                                 Domain
                                                                                                                                                                                                                                                                                                                   Region
                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                             metastasis.
                                                                                                                                                                                                                                                                                                                                                                                                   Human lymphocyte cell surface glycoprotein (HuLHR) variant.
                                                                                                                                                                                                                                                                                                                                                                                                                        01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR98110 standard;
                                                                                                                                                                                                                                                                                                                                                                                  Immunoglobulin; transmembrane receptor; adhesion; targetting;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
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                                        1996-238773/24.
                                                          ρď,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gkkskrsmndpy 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ncdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcafscsegtnltgieett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
    acid encoding hybrid immunoglobulin comprising site of a receptor fused to Ig constant region is and treatment e.g. of inflammation
                                                         Lasky LA;
                                                                                                                                                                                                                                                                                                                                                                therapy; drug delivery; antiviral; neuromodulator;
lator; cell adhesion; graft rejection; inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                           91US-0808122.
92US-0986931.
94US-0185670.
                                                                                                                    89US-0440625
89US-0315015
                                                                                                                                               89US-0315015
                                                                                                                                                                                                                                   258..316
/label= C
                                                                                                                                                                                                                                                                                /label= Lectin domain 159..192
                                                                                                                                                                                                                                              /label= Complement binding repeat 258..316
                                                                                                                                                                                                                                                             /label= EGF domain.
196..257
                                                                                                                                                                                                                                                                                                 /label= Signal region 38..154
                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
1..37
                                                                                                                                                                                                                  label= Transmembrane domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Protein;
                                                                                                                                                                                                                              . 354
                                                                                                                                                                                                                                Complement binding repeat 2.
                                                                                                                                                                                                 Cytoplasmic
                                                                                                                                                                                                                                                                                                                                                                                                                                                          371
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                                                                                                                                                                                                   domain
                                                                                                                                                                                                                                                                                                                                                                   inflammation;
            the ligand - useful for
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AAR98113
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Matches 370; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
      Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation
                                                                  Human lymphocyte
                                                                                               01-NOV-1996
                                                                                                                                                     AAR98113 standard; Protein; 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the adhesion/targetting of a ligand binding partner (LBP) with the more than one ligand. It can be used diagnostically for the in vitro assay of LBP and their targets; or therapeutically to deliver LBP such as toxins, enzymes, growth factors to particular cells. Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc.) The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               facilitates recovery, improves aqueous solubility and removes potentially immunogenic epitopes. Variants of the human lymphocyte cell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variant contains an Ala71Ser substitution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A hybrid immunoglobulin chain comprising the ligand binding site of a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the immunoglobulin super family nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines
                                                                                                                                                                                                                          361 kkskrsmndpy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
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                                                                                                                                                                                                                                                                              GPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKT
                                                                                                                                                                                                                                                                                                                                                                                                                                                     KKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCN
                                                                                                                                                                                                                                                       KKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                              CDVGXYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcafscsegtnltgieettc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    371 AA;
                                                                                             (first entry)
                                                                  cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99.6%;
                                                                surface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 2108; DB 1
Pred. No. 2e-140;
1; Mismatches
                                                                glycoprotein
                                                                                                                                                       A
                                                                (HuLHR) variant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          371;
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                                                                                                                                         effector functions of immunoglobulin and can bind to and/or activate vitro assay of LBP and their targets; or therapeutically for the in vitro assay of LBP and their targets; or therapeutically to deliver the particular cells.

Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc.) The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region facilitates recovery, improves aqueous solubility and removes potentially immunogenic epitopes. Variants of the human lymphocyte cell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variant contains a Leu150Val substitution.
                                              Matches
                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
                                                                                                                                                                                                                                                                                                                                 immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the
                                                                                                                                                                                                                                                                                                                                                                                                          A hybrid immunoglobulin chain comprising the ligand binding site a single transmembrane receptor without an active transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to Ig constant region - useful for diagnosis and treatment e.g. of inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Binding-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Binding-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 19; 41pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1996-238773/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Domain
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Domain
                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                             region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-FEB-1989;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-NOV-1989;
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                                            Local Similarity
nes 370; Conser
IFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNY 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lasky LA;
                                                                                                                  371 AA;
                                              Conservative
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89US-0315015.
91US-0808122.
92US-0986931.
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258..316
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /label= Cytoplasmic domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label= Complement binding repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /Label=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /label= Lectin domain
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.257
                                                          99.68;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .316
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     English.
                                           Score 2108; DB 1
Pred. No. 2e-140;
1; Mismatches
                                                                       DB 17;
                                            0;
                                                                         Length
                                              Indels
                                                                       371;
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               22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                    Domain
                                                                                                                                                                                                                                                                                          metastasis.
                                                                                                                                                                                                                                                                                                 Immunoglobulin; transmembrane receptor; adhesion; targetting;
diagnosis; therapy; drug delivery; antiviral; neuromodulator;
immunomodulator; cell adhesion; graft rejection; inflammation
                                                                                                          US5514582-A
                                                                                                                                                      Domain
                                                                                                                                                                       Binding-site
                                                                                                                                                                                         Binding-site
                                                                                                                                                                                                           Domain
                                                                                                                                                                                                                            Doma in
                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                     Human lymphocyte cell surface glycoprotein (HuLHR) variant.
                                                                                                                                                                                                                                                                                                                                                                         AAR98119;
                                                                                                                                                                                                                                                                                                                                                                                         AAR98119 standard;
(GETH ) GENENTECH INC
                                                                       23-FEB-1989;
                                                                                                                                                                                                                                             Region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCN 181
                                                                                                                                                                                                                                                                                                                                                                                                                                      kkskrsmndpy 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ifpwkcqstqrdlwnifklwgwtmlccdflahhgtycwtyhysekpmnwqrarrfcrdny
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         KKSKRSMNDPY 372
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               89US-0440625.

89US-0315015.

91US-0808122.

92US-0986931.

94US-0185670.
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/label Lectin of 159..192
                                                                       89US-0315015
                                                                                                                                    /label= Transmembrane domain 355..371
                                                                                                                                                                                                                                               Location/Qualifiers
1..37
                                                                                                                                                      332..354
                                                                                                                                                                        258..316
                                                                                                                                                                                          196..257
                                                                                                                                                                                                                                  /label= Signal region
                                                                                                                                                                                                 /label= EGF domain
                                                                                                                           /label= Cytoplasmic domain
                                                                                                                                                             /label - Complement binding repeat
                                                                                                                                                                               /label Complement binding repeat 1.
                                                                                                                                                                                                                                                                                                                                                                                           Protein;
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                                                                                                                                                                                                                    domain
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RESULT 1
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AC AAR2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC A hybrid immunoglobulin chain comprising the ligand binding site of CC a single transmembrane receptor without an active transmembrane CC region; fused at its C-terminus with the N-terminus of an CC immunoglobulin constant region. The receptor is not a member of the CC immunoglobulin super family, nor a multiple submit polypeptide ce encoded by discrete genes. The hybrid immunoglobulin chain combines CC the adhesion/targetting of a ligand binding partner (LBP) with the CC effector functions of immunoglobulin and can bind to and/or activate CC witro assay of LBP and their targets; or therapeutically for the in CC vitro assay of LBP and their targets; or therapeutically to deliver CC LBP such as toxins, enzymes, growth factors to particular cells. CC Typical applications are as antiviral, neuromodulating and CC immunomodulating agents, or as modulators of cell adhesion (e.g. in CC treating graft rejection; inflammation; metastasis of lymphoma etc.) CC The immunoglobulin component increases plasma half life and CC facilitates purification while deletion of the transmembrane region CC facilitates recovery, improves aqueous solubility and removes CC cell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variants contains a Ser2267hr substitution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local Similarity
   AAR22802;
                                                      AAR22802 standard; Protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                               kkskrsmndpy
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Pred. No. 2e-140;
1; Mismatches 0;
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The protein contains regions encoding a carbohydrate binding domain, an EGF-like domain, a complement binding domain and a transmembrane domain. The protein contains 26 cystein residues. Cells transformed by the hLHR DNA are used to produce LHR (which mediates binding of lymphocytes to the endothelium of lymphoid tissue). LHR or its variants are useful as reagents for assaying LHR or anti-LHR anti-bodies, to purify the antibodies, as immunogens, and therapeutically to compete with normal binding of lymphocytes (to prevent graft/organ rejection; to treat inflammation (such as rheumatoid arthritis or other autoimmune diseases); for control of lymphocyte metastasis,
                                     and to treat conditions associated with accumulation of lymphocytes). Derivs. and variants of LHR may be produced having modified properties, e.g. increased activity, longer plasma half-life, reduced side effects and better aq. solublity.
                                                                                                                                                                                                                          The protein sequence was deduced from the DNA sequence obtd. by screening an oligo dT primed lambda gt10 cDNA library derived fr human peripheral blood lymphocyte mRNA obtd. from primary cells, with a 2.2 kb EcoRI insert of the murine Mel 14 antigen cDNA clo
                                                                                                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                   New DNA encoding at least one domain receptor - useful for treating graft
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60..62
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335..3
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271..2
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                                                                                                                                                                                                                                                                                             32pp;
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Best Local Similarity 99.5
Matches 370; Conservative
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    Mismatches

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1: /cgnl_7/ptodata/1/laa/5A_COMB.pep:*
2: /cgnl_7/ptodata/1/laa/5B_COMB.pep:*
3: /cgnl_7/ptodata/1/laa/6A_COMB.pep:*
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US-08-340-539A-18

US-08-340-539A-18

US-08-340-539A-16

US-08-340-539A-16

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5378464-2
US-08-365-470-3
US-09-209-668-19
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US-08-461-592B-2
US-08-513-278-4
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Patent No. 5514582
Sequence 2, Appli
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Sequence 19, Appli
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Patent No. 5514582
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" 1 3 4 3 3 1 ST C C T C G G G G G G G G G G G G G G G	1150 1150 1150 1150 1150 1150 1150 1150
Plication US/08513278 0844 MATION: LAGKY, LAURENCE A. STACHELL, SCOTT E. ROSEN, STEVEN D. SINGER, MARK S. YEDNOCK, TED A. YEDNOCK, TED A. YEDNOCK, TED A. YEDNOCK, TED A. OR POINT San Bruno B uth San Francisco allifornia USA 80 ADABLE FORM: PE: 5.25 inch, 360 K IBM PC compatible SYSTEM: PC-DOS/MS-D Patin (Genentech) Datin (Genentech) LICATION DATA: ON NUMBER: US/08/513 ATION: 5530 CATION DATA: ON NUMBER: 07/786149 TE: 06-MAY-1993 ON NUMBER: 07/786149 TE: 23-FEB-198 ENT INFORMATION: 69EPT Ginger R. 10N NUMBER: 33,055 10N N	119 574 67 367 1019 1019 1019 1083 1083 1083 240 36 2166 1466 1466 1466 1466 1466 1537 1847
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S/08513278 S/08513278 RENCE A. SCOTT E. YVEN D. YVEN D. YWPHOCYTE HOMING RECEPTORS 6 6 6 6 1 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	US-08-340-539A-15 5378464-3 US-08-940-062-8 US-08-940-539A-22 US-08-96-014A-4 US-08-877-620-4 US-08-877-620-4 US-08-96-014A-2 US-08-96-014A-2 US-08-99-6405-2 US-08-94-692-23 US-08-340-539A-20 US-08-340-539A-20 US-08-95-642-5 5256642-5 5256642-10 ALIGNMENTS
	Sequence 15, Appl Patent No. 5378464 Sequence 8, Appli Sequence 24, Appli Sequence 4, Appli Sequence 27, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 23, Appli Sequence 23, Appli Sequence 20, Appli

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5514582-2
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
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Best Local :
                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/18
FILING DATE: 21-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 372; Conservative (
                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 43
CURRENT APPLICATION DATA:
                  121
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                                                                                                                                                                                                                         FILING DATE: 23-FEB-1989
                                                                                                                                                                                                                                   APPLICATION NUMBER: 315,015
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                                                                                                                                 372;
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                                                                                                                             Similarity 100.72; Conservative
                                                                                                                            100.0%; Score 2116; DB 6; 100.0%; Pred. No. 2.9e-185; tive 0; Mismatches 0;
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Pred. No. 2.9e-185;
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                                                                        Matches 365;
                                                                                                      Query Match
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                                                                                                                                                                                                                                     TELEFAX: 212-596-9090
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,539A
FILING DATE: 16-NOV-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/008,459
                                                                                                                                                                                                                                                                                        TELEPHONE: 212-596-9000
                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 08
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Gunnison, Jane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS
       14
                                                                                      Local Similarity
                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                       TYPE: amino acids
                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 38
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
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STREET: 1251 Avenue of the Americas
CITY: New York
STATE: New York
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MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN
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                                                                    Conservative
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                                                                                  98.1%;
98.1%;
                                                                                                                                                                                                                                                                                                                                    38,479
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                                                                   3; Mismatches
                                                                                 Score 2076; DB 1;
Pred. No. 1.3e-181;
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                                                                                                  Length 385;
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                                                               Gaps
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Query Match

Length 385;

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US-08-461-592B-2
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                                                                                                                           PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/340,539

FILING DATE: 16-NOV-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/008,459

FILING DATE: 25-JAN-1993

ATTORNEY/AGENT INFORMATION:

NAME: James F. Haley, Jr.

REGISTRATION NUMBER: 27,794

REFERENCE/DOCKET NUMBER: CG-104

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION S96-9000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                   TELEPHONE: (212) 596-900
TELEFAX: (212) 596-9090
TELEX: 14-8367
INFORMATION FOR SEQ ID NO: :
                                                                                                                                                                                                                                                                                                                                                                                                         ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHARRIC SELECTINS AS SIMULTANES
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SI
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
TOPOLOGY: 1: MOLECULE TYPE:
                                                                 SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET:
CITY: BC
STATE: N
COUNTRY:
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                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: CLASSIFICATION: 514
                                     TYPE:
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                                                   LENGTH:
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BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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RESULT 5
US-08-513-278-4
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                              FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
                                                        APPLICATION NUMBER: 07/786149
FILING DATE: 31-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/315015
FILING DATE: 23-TEB-1989
                                                                                                                                        APPLICATION NUMBER: US/08/513,278
FILING DATE: 10-AUG-1995
CLASSIFICATION: 5530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059027
FILING DATE: 06-MAY-1993
ADDITION NUMBER: 07/76616
                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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CITY: South San Francisco
STATE: California
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REGISTRATION NUMBER: 3:
                                                                                                                                                                                                                                                                                                                                               ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
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REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
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STACHELL, SCOTT E
ROSEN, STEVEN D.
SINGER, MARK S.
                                                                                                                                                                                                                                                                                                                                                             USA .
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98.1%;
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Pred. No. 1.3e-181;
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RESULT 6
5514582-4
; PATENT NO. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
: TOTAL OF THE OF T
                                                                                                                                                                          5514582-4
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                                        Query Match
Best Local Similarity
             Matches
                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/18
ETLING DATE: 21-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
APPLICATION NUMBER: 440,625
FILING DATE: 22-NOV-1989
APPLICATION NUMBER: 315,015
FILING DATE: 23-FEB-1989
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TELEPHONE: 415/225-3216
TELEPAX: 415/952-9881
TELEX: 910/371-71.68
INFORMATION FOR SEQ ID NO: 4:
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LENGTH: 372 amino acids
TYPE: amino acid
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                                                                                                                                                                                                        LENGTH: 372
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             283;
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             Conservative
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78.0%; Score 1651; DB 6; 76.1%; Pred. No. 7.6e-143; .... 27. Mismatches 57;
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76.1%;
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Pred. No. 7.6e-143;
Mismatches 57;
                                                               Length 372;
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   Indels
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; MOLECULE TYPE: US-08-110-158-4
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US-08-110-158-4
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                                                                                                               APPLICATION UNMER: US/08/110,158
FILING DATE: 1930820
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/320,408
FILING DATE: 08-MAR-1989
ATTORNEY/AGENT INFORMATION:
NAME: PABST, PATERE 11,284
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-815-6508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 4, Application US/08110158 Patent No. 5605821
                                                                                           TELEFAX: (404)-815-65: INFORMATION FOR SEQ ID NO:
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                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 830 amino acid
                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/110,158
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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TITLE OF INVENTION: Expression Control Sequences
TITLE OF INVENTION: P-Selectin Gene
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
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CITY: Atlanta
STATE: GA
                         TOPOLOGY:
                                      STRANDEDNESS:
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ZIP: 303
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                                                              830 amino acids
                                                                                                        (404)-815-6555
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PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/554199
FILING DATE: 17-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 31,284
REFERENCE/DOCKET NUMBER: 30.284
REFERENCE/DOCKET NUMBER: 30.284
REFERENCE/DOCKET NUMBER: 30.284
INFORMATION FOR SED ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 830 amino acids
TYDE: AMINO ACID
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GENERAL INFORMATION:
APPLICANT: Regents of the Board of APPLICANT: Oklahoma
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                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARRE: PAtentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/05059
FILING DATE: 19910717
                                                                                                                                                                                                                                                                     CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/320408
FILING DATE: 08-MAR-1989
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STATE: Georgia
COUNTRY: US
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ZIP: 30303
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100 Peachtree Street, Suite 3100
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ORIGINAL SOURCE: MOLECULE YES TOPOLOGY: IITHEAL MOLECULE TYPE: peptide LOCATION: FEATURE: LOCATION: FEATURE: FEATURE:
NAME/KEY: FEATURE:
NAME/KEY: NAME/KEY: NAME/KEY: LOCATION: LOCATION: NAME/KEY: LOCATION: TISSUE TYPE: ORGANISM: Homo sapien E: Blood Disulfide-bond 60..158 Disulfide-bond 478..505 Disulfide-bond 461..474 Disulfide-bond 448..492 Disulfide-bond 416..443 Disulfide-bond 399..412 Disulfide-bond 386..430 Disulfide-bond 354..381 Disulfide-bond 337..350 Disulfide-bond 324..368 Disulfide-bond 292..319 Disulfide-bond 275..288 Disulfide-bond 262..306 Disulfide-bond 230..257 Disulfide-bond 213..226 Disulfide-bond 200..244 Disulfide-bond 185..194 Disulfide-bond 168..183 Disulfide-bond 163..174 Disulfide-bond 131..150 4..25 Disulfide-bond Endothelial N-terminal

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LOCATION: 98
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NAME/KEY: Binding-site
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                                   /note= "Potential asparagine-linked
glycosylation site"
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glycosylation site"
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glycosylation site"
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glycosylation site"
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glycosylation site"
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glycosylation site"
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RESULT 9
5378464 2
; Patent No. 5378464
; APPLICANT: MCEVER, RODGER P.
; TITLE OF INVENTION: MODULATION OF INFLAMMATORY RESPONSES
; BY ADMINISTRATION OF GMP-140 OR ANTIBODY TO GMP-140
; NUMBER OF SEQUENCES: 32
; CURRENT APPLICATION DATA:
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5378464-2
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FILING DATE: 08-MAR-1989
SEQ ID NO:2:
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Best Local Similarity
Matches 155; Conserv
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OTHER INFORMATION:
FEATURE:
NAME/KEY: Binding:
          131
                                 128 CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
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LOCATION: 716
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OTHER INFORMATION:
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CVETYIKSPSAPGKWNDEMCLKKKMALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY
                                                                                                                                                            QNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKED 127
                                                                                                                                                                                                                                                      QRFQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI 70
                                                                                                                                                                                                                                                                                              QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI
                                                                                                                           QNKNEIDYLNKVLPYYSSYYWIGIRKNNKTWTWVGTKKALTNEAENWADNEPNNKRNNED
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                                                                                                                                                                                                                                                                                                                                                                                                                42.0%; Score 889; DB 6; 50.0%; Pred. No. 7.1e-73;
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glycosylation site"
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glycosylation site"
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glycosylation site"
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                                                                                                                                                                   Matches
                                                                                                                                                                                   Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                   TELEPHONE: 202-371-2600
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APPLICATION NUMBER: US 07/850,802
FILING DATE: 13-MAR-1992
ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: US 0
FILING DATE: 05-AUG-1993
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
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CITY: Washington
CTATE: DC
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION:
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159 SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
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                                 82 VWVGTQKPLTEEAKNWAPGEPNNRQKDEDCVEIYIKREKDVGMWNDERCSKKKLALCYTA 141
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                                                                                                                 39 WTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                                                                                Local Similarity 52.0 nes 145; Conservative
                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 36,351
REFERENCE/DOCKET NUMBER: 06
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE: herewi
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                                                                                                                                                                                                                                                                                                     ENGTH:
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                                                    TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                               WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYWIGIRKVNNVW 81
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VWTAPAPVCK 320
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1100 New York Ave.,
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                                                                                                                                                              40.7%; Score 862; DB 1; 1
52.0%; Pred. No. 1.4e-70;
tive 41; Mismatches 93;
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LENGTH: 610
5217870-2
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5217870-2
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US-09-209-668-19
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                                              SEQ ID NO:2:
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Best Local Similarity
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APPLICANT: Xu, Xiaoxing S.
TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR
TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION METHODS OF MACHINE REFERENCE: ISPH-0336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/209,668A CURRENT FILING DATE: 1998-12-10
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                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/345,151
FILING DATE: 28-APR-1989
                                                                                                                                             APPLICANT: HESSION, CATHERINE A.; LOBB, ROY R.; GOELZ, SUSAN TITLE OF INVENTION: MONOCLONAL ANTIBODIES AGAINST CDX
                                                                                                                            NUMBER OF SEQUENCES:
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                                                               FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                        YNSSCSISCDRGYLPSSMETMQCMSSGEWSAPIPACNVVECDAVTNPANGFVECFQNPGS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VWVGTQKPLTEEAKNWAPGEPNNRQKDEDCVEIYIKREKDVGMWNDERCSKKKLALCYTA 141
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
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52.0%;
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Pred. No. 1.4e-70;
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Query Match

40.7%;

Score 862;

DB 6;

Length

DB 2;

Length 484;

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US-08-252-493C-9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 9,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity Matches 145; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -08-252-493C-9
                                                                                                                                         TELEFAX: (203) 772-36 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: Fidel, Seth A.
REGISTRATION NUMBER: 38,449
REFERENCE/DOCKET NUMBER: ALX-138
                                             MOLECULE TYPE:
                                                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: UFILING DATE: June 1, CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          202 YNSSCSISCDRGYLPSSMETMQCMSSGEWSAPIPACNVVECDAVTNPANGFVECFQNPGS
           DESCRIPTION:
DESCRIPTION:
                                                                                         TYPE: amino acids
                                                            TOPOLOGY:
                                                                         STRANDEDNESS:
                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                       TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITY: New Haven
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                                                            Linear
                                                                                                                                                     (203) 776-1790
203) 772-3655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seth A. Fidel
                                                                                                                                                                                                                                                                                                                                                                                                                                     3.5 inch,
           cDNA to mRNA predicted amino acid sequence Porcine E-selectin
                                                                        Single
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Best Local Similarity
Matches 159; Conserv
ATTORNEY/AGENT INFORMATION:
NAME: Fidel, Seth A.
REGISTRATION NUMBER: 38,449
REFERENCE/DOCKET NUMBER: ALX-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 776-1790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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APPLICANT:
                                                                                                                    CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                           CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inch,
                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: PORCINE NUMBER OF SEQUENCES: 9
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                                                                                                                                                                                                                         COMPUTER: PC compatible OPERATING SYSTEM: DOS 6.2 SOFTWARE: WordPerfect 6.0
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                                                                                                                                                                            FILING DATE:
                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                       STATE:
                                                                                                                                                                                                                                                                                                                                                                       CITY: New Haven
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCT----- 211
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             --PVFGAVCTFACPEGWMLNGSVALTCGATGHWSGMLPTCEAPAESKIPLAMGLAAGGVS 440
                                                                                                                                                                                                                                                                                                                    06511
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                                                                                                                                                                                                                                                                                                                                                                                    25 Science Park,
                                                                                                                                                                                                                                                                                                                                     USA
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Rother, Russell P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Evans, Mark J.
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Pred. No. 2.2e-66;
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Sequence 38, Application US/08274661B
Patent No. 5593882
GENERAL INFORMATION:
APPLICANT: Erbe, David V.
APPLICANT: Lasky, Laurence A.
APPLICANT: Lesky, Leonard G.
TITLE OF INVENTION: Selectin Variants
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
                                                                                                                                                                                                                                                                                                                                                                     RESULT 15
US-08-274-661B-38
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 38.5%; Score 814.5; DB 3; Length 484; Best Local Similarity 36.1%; Pred. No. 2.2e-66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 159;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (203) 772-3655
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: CDNA to mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                         441 FMTSASFLLWLLKRLRKRAK 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            345 -FSGLAFIIWLARRLKKGKK 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 331 YNPLF-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       278 SFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ------KLDKSFSMIKEGD 330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         263 YKSTCHFTCAEGFGLQGPAQIECTAQGQWTQQAPVCKAVKCPAVSQPKNGLVKFTHSPTG 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         203
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DESCRIPTION:
DESCRIPTION:
                                                                                                                         COUNTRY:
                                                                                                                                         STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 39 WTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --PVFGAVCTFACPEGWMLNGSVALTCGATGHWSGMLPTCEAPAESKIPLAMGLAAGGVS 440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSH-PLA 277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WSYSASTETMTEDDASAYCQQRYTHLVAIQNHAEIEYLNSTENYSASYYWIGIRKINGTW 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EFTYKSSCAFSCEEGFELRGSAQLACTSQGQWTQEVPSCQVVQCSSLEVPREINMSCSGE 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAFECKEGFELIGPEHLQCTSSGSWDGKKPTCKAVTCDTVGHPQNGDVSCNHSSIGEFA 262
                                                                                                         94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           484 amino acids
                                                                                                                         USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           predicted amino acid sequence Porcine E-selectin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        55; Mismatches 109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ----- IPVAVMVTA---- 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels 117; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        218
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Search completed: October 13, Job time: 719 sec
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                                                                                                                                                                                                                                                                                         Query Match 31.5%; Score 666; DB 1; Length 11 Best Local Similarity 100.0%; Pred. No. 1.2e-53; Matches 117; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: :
                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: 10/01/1992
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/274,661B FILING DATE: 13-Uul-1994 CLASSIFICATION: 424 PRIOR APPLICATION DATA: APPLICATION NUMBER: 07/956701 FILING DATE: 10/01/1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
                                                                                                                                     99 TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALC
                                                                                                                                                                                                                              39 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                              61 TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALC
                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 33,055
REFERENCE/DOCKET NUMBER: 761P1C1
                                                                                                                                                                                                    1 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 60
                                                                                                                                                                                                                                                                                                                                                                                                                                Linear
                       2001, 02:55:41
                                                                                                                                                                                                                                                                                                                                     Length 117
                                                                                                                                                                                                                                                                                           0;
                                                                                                                117
                                                                                                                                                        155
                                                                                                                                                                                                                                                                                           Gaps
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OM protein - protein search, using sw model
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pending_Patents_AA_Main: *
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Gapop 10.0 , Gapext 0.5
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2116
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Copyright (c) 1993 - 2000 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /cgnl_7/ptodata/1/paa/PCTUS_COMB.pep:*
/cgnl_7/ptodata/1/paa/US06_COMB.pep:*
/cgnl_7/ptodata/1/paa/US07_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /cgnl_7/ptodata/1/paa/US080_COMB.pep:*
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_//ptodata/1/paa/US099_COMB.pep:*
_//ptodata/1/paa/US099_COMB.pep:*
_//ptodata/1/paa/US091_COMB.pep:*
/ptodata/1/paa/US60_COMB.pep:*
                            /ptodata/1/paa/US097_COMB.pep:*/ptodata/1/paa/US098_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

1 9 8 8 7 6 5 4 3 2 1	Result No.
2116 2076 2076 2076 2076 2076 2076 1883 1879 1879 1879	Score
100.0 98.1 98.1 98.1 98.1 98.1 89.0 88.8 88.8	Query
372 385 385 385 385 385 1078 1078 1078 1078	Query Match Length DB ID
15 7 4 1 1 1 1 1 1 1 1 1	EEG
5 US-09-119-209-2 PCT-US92-03970-2 PCT-US94-00909-2 US-08-040-459-2 US-08-410-539-2 US-08-4110-569-2 3 US-60-212-659-523 3 US-60-230-435-1751 5 US-09-119-209-4	ID
Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 2, Appli Sequence 523, App Sequence 428, App Sequence 1751, App	Description

45 2	44	43	42	41 2	40	39	38	37	36	35 4	34	3 4	N	1	30 4	9	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
47.5	248	254	266	83	388	388	389	403	415	15.5	416	47.5	51.5	51.5	51.5	52.5	586	586	586	586	645	645	666	666	862	862	862	862	862	862	862	898	905	905
11.7		•	•	•	٠	18.3	•	٠	19.6	•		21.1	•		•	•	•	27.7	•	27.7	•	•	•	•	•	•	٠	0	40.7	0	40.7	ັນ	42.8	42.8
1124	35.1	75	309	355	68	68	115	104	134	130	112	133	138	129	128	129	116	116	116	116	119	119	119	119	610	610	610	610	610	610	610	700	830	830
23	ű	23	<u>ب</u>	ب	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	16	16	14	1	10	_	23	œ	_
-60-191-637-134	-60-196-718-	-60-188-162-	332-	-01239-	-60-163-233	-60-163-123	-60-196-718-	-60-160-189-	-60-192-739-	0-196-174-9	-60-160-203-	-60-196-718-	-60-196-718-	-60-195-053	-60-195-053-	-60-196-718-	-60-169-	-60-169-840-	-60-160-203-	-60-160-189-1	-60-169-840-	-60-160-203-	0-169-867-	-60-160-189-	-09-802-640-	S-09-266-091A-	-09-266-091-2	9-009-490A	-08-770-	s-08-657-753-	-US99-28965-1	-315-	-687B-	PCT-US94-09395-4
	Seguence 4486. An	5010,	Sequence 615, App	1145, A	e 4179,		e 3944,	5792,	3226,	e 903, A	e 3503,	4237,	e 4238,	e 1908,	1909,	e 4236,		9326,	6200,	ш	6716,	5003,	5823,	398	36,	N N	ν,	е 89,	Sequence 3, Appli	e 2,	19	e 4	Sequence 4, Appli	Sequence 4, Appli

ALIGNMENTS

RESULT

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US-09-119-209-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 2, Application US/09119209
GENERAL INFORMATION:
APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/513278
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059027
                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/119,209
FILING DATE: 20-Jul-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
TITLE OF IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                               FILING DATE: 20
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                             STREET: 1 DNA Way
CITY: South San F
STATE: California
                                                                                                                                                                                                                                                                                         COUNTRY: U:
ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                             T: ROSEN, STEVEN D.
T: SINGER, MARK S.
T: YEDNOCK, TED A.
INVENTION: LYMPHOCYTE HOMING RECEPTORS
                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                       Genentech, Inc.
IUMBER: 08/059027
6-MAY-1993
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                                                                                                                                                                                                         Sequence 2, Application PC/TUS9203970
GENERAL INFORMATION:
APPLICANT: Dana-Farber Cancer Institute,
TITLE OF INVENTION: LEUKOCYTE-ASSOCIATED
TITLE OF INVENTION: PROTEIN
COUNTAL.

ZIP: 02109
ZIP: 02109
COMPUTER REALDABLE FORM:
MEDDIUM TYPE: Floppy disk
MEDDIUM TYPE: IBM PC compatible
"""" PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Love, Richard B.
REGISTRATION NUMBER: 34,659
REFERENCE/DOCKET NUMBER: P056:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 659/225-5530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin,
STREET: Ten Post Office Square
                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 372 amino acids
TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                    301
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                                                                                                                               CITY: Boston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                        GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                                                                                                                                                                                                                                      GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                              TICESSGIWSNPSPICOKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQDWSCSGHGECVEIINNHTC 180
                                                                                                                                                                                                                                                                                                                                                                                                                TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                YTDLVAIQNKAEIEYLEKTLPESRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                  Massachusetts
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                                                                                                                                                                                                            LEUKOCYTE-ASSOCIATED CELL SURFACE PROTEIN
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                                                                                                                                                              Hayes
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                                                            TITLE OF INVENTION: CHIMERIC SELECTINS AS SIM
TITLE OF INVENTION: AGENTS FOR COMPONENT SELE
NUMBER OF SEQUENCES: 11
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                Sequence 2, Application PC/TUS9400909 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 365;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,346
REFERENCE/DOCKET NUMBER: DFCI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PATELLA.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT.
DATE: 19920513
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                                 APPLICATION NUMBER: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                     APPLICANT:
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LENGTH: 385 amino acids
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APPLICATION NUMBER: US.08/008,459 FILING DATE: 25-JAN-1993
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                                                                                                                                                                                             CHIMERIC SELECTINS AS SIMULTANEOUS BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98.1%;
98.1%;
                                                    PCT/US94/00909
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Pred. No. 2.6e-173;
3; Mismatches 4;
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US 07/983,606

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RESULT 4
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Best Local Sim
Matches 365;
                                                                                                      Sequence 2, Application US/08008459 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 07/962,483
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-OCT-1991
PRIOR APPLICATION NUMBER: US 07/737,092
FILING DATE: 29-JUL-1991
PRIOR APPLICATION NUMBER: US 07/730,503
APPLICATION NUMBER: US 07/730,503
APPLICATION NUMBER: US 07/730,773
APPLICATION NUMBER: US 07/730,773
PRIOR APPLICATION NUMBER: US 07/700,773
APPLICATION NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
PRIOR APPLICATION NUMBER: US 07/700,773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 21-FEB-1989
INFORMATION FOR SEQ ID NO: 2
             APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
NUMBER OF SEQUENCES: 11
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CORRESPONDENCE ADDRESS:
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APPLICATION NUMBER:
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APPLICATION NUMBER: U
FILING DATE: 30-NOV-PRIOR APPLICATION DATA:
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TYPE: a
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; Pred. No. 2.6
3; Mismatches
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                                                                                                                                                                                                                                                                                                              Matches 365;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PILING DATE: 30-NOV-1992

PRIOR APPLICATION NUMBER: US 07/862,483

FILING DATE: 02-APR-1992

PRIOR APPLICATION NUMBER: US 07/770,608

FILING DATE: 03-OCT-1991

PRIOR APPLICATION NUMBER: US 07/770,608

FILING DATE: 03-OCT-1991

PRIOR APPLICATION NUMBER: US 07/737,092

FILING DATE: 29-JUL-1991

PRIOR APPLICATION NUMBER: US 07/730,503

FILING DATE: 08-JUL-1991

PRIOR APPLICATION NUMBER: US 07/730,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION NUMBER: US 07/730,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION NUMBER: US 07/7313,109

FILING DATE: 03-FEREN US 07/7313,109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (617) 451-031
TELEX: 940675
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,346
REFERENCE/DOCKET NUMBER: DFCI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 21-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
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APPLICATION NUMBER: US 07/983,606
FILING DATE: 30-NOV-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                 1 MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60
                                                                       NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT 240
                                                                                                                                                      YIDLVAIQNKAEIEYLEKTLPESRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 133
                                                                                                                                                                                        YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                   MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN
NCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFNFNSQCAFSCSEGTNLTGIEETT
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98.1%;
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Pred. No. 2.6e-173;
3; Mismatches 4;
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                                                                                                                                                                                                                                                                                                                                                  Length 385;
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  253
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US-08-340-539-2
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TELEX: 940675
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                             REFERENCE/DOCKET NUMBER: DFCI-318XX TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 542-2290
                                                                                                                                                                                                APPLICATION NUMBER: US 0 FILING DATE: 15-MAY-1991 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/983,606
FILING DATE: 30-NOV11992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/862,483
FILING DATE: 02-APR-1992
                                                                                                                                               FILING DATE: 21-FEB-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/008,459
FILING DATE: 25-TAN-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/737,092
FILING DATE: 29-JUL-1991
                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 03-OCT-
                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Tedder, APPLICANT: Kansas,
                                                  TELEFAX:
                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 21-FE
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374 GKKSKRSMNDPY 385
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                                                                                                                     REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 0 FILING DATE: 08-JUL-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release "."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: FILING DATE: 16-NON CLASSIFICATION: 514
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Ten Post Office Square
                                               (617) 451-0313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tedder, Thomas F.
                                                                                                                                                                                                                                                                                                                                                                         03-OCT-1991
                                                                                                                               Holliday
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Floppy disk
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                                                                                                                                                                                                                                     US 07/700,773
                                                                                                                                                                                                                                                                                    US 07/730,503
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US-08-410-569-2
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GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 365;
                ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,
                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Tedder, Thomas F.

APPLICANT: Spertini, Olivier G.

TITLE OF INVENTION: LEUKOCYTE ADHESION MOLECULE-1 (LAM-1)

TITLE OF INVENTION: AND LIGAND THEREOF
                                                                                                                                                                                                                                                                  ZIP: 02109
COMPUTER READABLE FORM:
                                                                                                                         PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                           APPLICATION NUMBER: US 07/770,608 FILING DATE: 03-OCT-1991 APPLICATION NUMBER: US 07/700,773 FILING DATE: 15-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             374 GKKSKRSMNDPY 385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       314 TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
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                                                                                                                                                         APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361 GKKSKRSMNDPY 372
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                MEDIUM TYPE:
                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                               STATE:
                                                                                                                                                                                                                                                                                                                            CITY: Boston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN
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98.1%;
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                34,346
 DFCG-152EX
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Pred. No. 2
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RESULT 7
US-60-212-659-523
US-60-212-659-523
Sequence 523, Application US/60212659
GENERAL INFORMATION:
APPLICANT: Bessley, Ellen
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000674
CURRENT APPLICATION NUMBER: US/60/212,659
CURRENT FILING DATE: 2000-06-19
NUMBER OF SEQ ID NOS: 879
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 523
LENGTH: HUMAN
US-60-212-659-523
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Best Local S
Matches 365
                                           Query Match
Best Local Similarity
Matches 336; Conserv
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TELEPHONE: (617) 542-2290
TELEPAX: (617) 451-0313
TELEX: 940675
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
TYPE: amino acid
TOPOLOGY: linear
  604
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Local Similarity 98.1%;
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GKKSKRSMNDPY 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC 180
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                                                                                                                                                                                                                                                                                                                                                                                                               CEPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       365;
                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                       89.0%;
97.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 2076; DB 8;
Pred. No. 2.6e-173;
                                                      Score 1883;
Pred. No. 7
                                            Mismatches
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                                          DB 23;
7.8e-156;
hes 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 385;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                            Indels
                                                                Length
                                                                 1078;
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 RESULT 9
US-60-230-435-1751
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Sequence 428, Application US/60207315
; General Information:
; APPLICANT: Beasley, Ellen
; APPLICANT: Beasley, Ellen
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE
; TITLE OF INVENTION: USES THEREOF
; TITLE OF INVENTION: USES THEREOF
; TILE REFERENCE: CL000601
; CURRENT APPLICATION NUMBER: US/60/207,315
; CURRENT APPLICATION NUMBER: US/60/207,315
; CURRENT FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 528
; SOFTMARE: FrastSEQ for Windows Version 4.0
; SEQ ID NO 428
; LENGTH: 1078
; TYPE: PAT
; ORGANISM: HUMAN
US-60-207-315-428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 8
US-60-207-315-428
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Best Local Similarity 97.3
Matches 335; Conservative
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SFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKR 366
                                                                            LSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDK 321
                                                                                                                                                                                                                                                        APELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEP
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97.1%;
                                                                                                                                                                                                                                                                                                                                                                                  Score 1879; DB 23;
Pred. No. 1.7e-155;
3; Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                                                                   Length
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GENERAL INFORMATION:
APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/60/230,435
CURRENT FILING DATE: 2000-09-06
NUMBER OF SEQ ID NOS: 2991
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 1751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 88.8
Best Local Similarity 97.1
Matches 335; Conservative
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-60-230-435-1751
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 1078
TYPE: PRT
            SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/119,
                                                COMPUTER READABLE FORM:
MEDIOM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
                                                                                                                                                                                                                                                                              APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
APPLICANT: ROSEN, STEVEN D.
APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS
                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       904
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                                                                                                                                            ZIP:
                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                              ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APELGTMDCTHPLGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEP
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                                                                                                                                           94080
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South San Francisco
                                                                                                                                                                            California
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                                                                                                                                                                                                                            Genentech, Inc.
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   20-Jul-1998
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97.1%;
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              US/09/119,209
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Pred. No. 1.7e-155;
3; Mismatches 7;
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RESULT 11
PCT-US94-09395-4
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                                                                                                                Sequence 4, Application PC/TUS9409395 GENERAL INFORMATION:
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 4:
                                                             APPLICANT: Board of Regents of the University of Oklahoma TITLE OF INVENTION: Expression Control Sequences of the P NUMBER OF SEQUENCES: 17
                                               CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 372 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE/DOCKET NUMBER: PO
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-5530
TELEFAX: 650/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/
FILING DATE: 6-MAY-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                    361 GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                       301
ADDRESSEE: Patrea L. Pabst
STREET: 1100 Peachtree Str
CITY: Atlanta
                                                                                                                                                                                                                                                                                                                                                                                         241
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 08/5 FILING DATE: 10-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            YTDLVAIQNKABIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                                                                     TQCGASGNWSSPEPICQETNRSFSKIKEGDYNPLFIPVAVMVTAFSGLAFLIWLARRLKK 360
                                                                                                                                                                                                                                                                                                     TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
                                                                                                                                                                                                                                                                                                                                                                    CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                                                                                                    GKKSQERMDDPY 372
                                                                                                                                                                                                                                                                                                                                                      CGASGNWSSPEPICQVVQCEPLEAPELGTMDCIHPLGNFSFQSKCAFNCSEGRELLGTAE
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76.1%;
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                 Street,
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Pred. No. 4.9e-136;
2: Mismatches 57;
                 Suite
                 2800
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PCT-US94-09395-4
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NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-815-6555
TELEPAX: (404)-815-6555
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                            Sequence 4, Application US/08449687B GENERAL INFORMATION:
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ZIP: 30309-4530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC TOOS/MS-DOS
SOFTWARE: Patentin Release #1.0, \
CURRENT APPLICATION DATA:
                                                                                                                                                                                       APPLICANT: McEver, Rodger P.
APPLICANT: Pan, Juniliang
TITLE OF INVENTION: Expression Control Sequences
TITLE OF INVENTION: P-Selectin Gene
                                                                                                                                            NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      308 IWSNPSPICQ 317
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                128 CVETYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVETINNHTCNCDVGYY 187
                                        STREET: 2800 One Atlantic Center STREET: 1201 West Peachtree Street CITY: Atlanta STATE: GA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/
FILING DATE: 19-AUG-1994
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  / Match 42.8%; Score 905; DB 1; Length 830; Local Similarity 50.6%; Pred. No. 3.8e-70;
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COUNTRY: USA
ZIP: 30309-3450
                                                                                                                             ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CVEIXIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY 190
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                                                                                                                             Patrea L. Pabst
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APPLICANT: Beasley, Ellen
FITTLE OF INVENTION: ISOLATED HUMAN PROTEASE
FITTLE OF INVENTION: UNCLEIC ACID MOLECULES E
FITTLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000601
CURRENT APPLICATION NUMBER: US/60/207,315
CURRENT APPLICATION NUMBER: 2000-05-30
NUMBER OF SEQ ID NOS: 528
SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                                                                                                                     US-60-207-315-467; Sequence 467, Applica; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/449,687B
FILING DATE: 24-MAY 1995
CLASSIFICATION: 435
CRASSIFICATION DATA:
APPLICATION NUMBER: US 08/110,158
FILING DATE: 20-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/320,408
FILING DATE: 08-MAR-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (404)873-879 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: PABSE, PALTEA L.
REGISTRATION NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: 11
MOLECULE TYPE:
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; LCCATION: (1)...(700)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-60-207-315-467
                                                                                                                                                                                                                                                                            PCT-US99-28965-19
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GENERAL INFORMATION:
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Best Local (
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                                                                                                                                                                                          Matches
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Best Local
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LENGTH: 700
                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Monia, Brett P.
APPLICANT: Xu, Xiaoxing S.
APPLICANT: Xu, Xiaoxing S.
APPLICANT: Isis Pharmaceuticals, Inc.
TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR
TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES
FILE REFERENCE: ISPH-0424
                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: PCT/US99/28965
CURRENT FILING DATE: 1999-12-08
EARLIER APPLICATION NUMBER: US 09/209,668
EARLIER FILING DATE: 1998-12-10
                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS: 25
                                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                            TYPE: PRT
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                                                                                                                                                                                                                                                                                                                            LENGTH: 610
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                                                                                                                                                                                        Local Similarity 52.0 ses 145; Conservative
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                                                  WWGTQKPLTEEAKNWAPGEPNNRQKDEDCVETYIKREKDVGMWNDERCSKKKLALCYTA 141
SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
                                                                  TWVGTIKKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                     WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYWIGIRKVNNVW 81
                                                                                                                                       WTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FSSQCAFSCSEGTNUTGIEETTCGFFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FNSQCSFHCTDGYQVNGPSKLECLASGIWTNKPPQCLAAQCPPLKIPERGNMTCLHSAKA 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                    40.7%; Score 862; DB 1; I 52.0%; Pred. No. 1.6e-66; ative 41; Mismatches 93;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       42.4%; Score 898; DB 23; 54.1%; Pred. No. 1.3e-69;
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                                                                                                                                                                                                                      Length 610;
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                                                                                                                                                                                        Indels
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (415) 576-030 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION: TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Kezer, William B.
REGISTRATION NUMBER: 37,369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS
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APPLICANT: Hope, Michael J.
TITLE OF INVENTION: Enhanced Efficacy of Liposomal Antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Klimuk, Sandra K. APPLICANT: Semple, Sean C.
                                                                                       142
                             219 FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
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                                                                                                                                                                                                                                                                                                                                             y Match 40.7%; Score 862; DB 10;
Local Similarity 52.0%; Pred. No. 1.6e-66;
hes 145; Conservative 41; Mismatches 93;
                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                            22 WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYWIGIRKVNNVW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/657,753 FILING DATE: Not yet assigned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: Two Embarca
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                     39 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
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                                                                                                                                                                                                TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                       ACTINTSCSGHGECVETINNYTCKCDPGFSGLKCEQIVNCTALESPEHGSLVCSHPLGNFS
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Db 262 PPWNTTCTFDCEEGFELMGAQSLQCTSSGNWDNEKPTCK 300 Search completed: October 13, 2001, 02:58:37 Job time: 593 sec	•	Search Job tim	Db 2	Ωу 2
300		ompleted: October 13, 2001, 02:58:37 : 593 sec	2 FPWNTTCTFDCEEGFELMGAQSLQCTSSGNWDNEKPTCK	279 FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ 317
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sequence sequence

873, App
99, App1
204, App
51085, A
305, App1
14, App1
15, App1
15, App1
17, App
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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1: /cgnl_7/ptodata/2/paa/PCT_NEW_COMB.pep:*

2: /cgnl_7/ptodata/2/paa/US06_NEW_COMB.pep:*

3: /cgnl_7/ptodata/2/paa/US07_NEW_COMB.pep:*

4: /cgnl_7/ptodata/2/paa/US08_NEW_COMB.pep:*

5: /cgnl_7/ptodata/2/paa/US09_NEW_COMB.pep:*

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US-09-760-475-3252
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US-09-760-498-916
US-09-760-498-916
US-09-760-498-918
US-09-760-498-920
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US-09-760-498-920
US-09-760-498-920
US-09-760-498-9255
US-09-760-498-9255
US-09-764-875-615
US-09-764-875-615
US-09-764-875-938
US-09-764-870-279
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Compugen Ltd
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Sequence 2123, Ap
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Sequence 11328, Ap
Sequence 1328, Ap
Sequence 2122, App
Sequence 1145, Ap
Sequence 2126, Ap
Sequence 2126, Ap
Sequence 3255, Ap
Sequence 3255, Ap
Sequence 41, Appli
Sequence 4, Appli
Sequence 11, Appl
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Sequence 279, App
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Sequence 30462, A
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GENERAL INFORMATION:
APPLICANT: ROSEN et al.,
TITLE OF INVENTON: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ49
CURRENT APPLICATION NUMBER: US/09/760,475
CURRENT FILING DATE: 2001-01-16
Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 4122
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2123
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-09-760-475-2123
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US-09-760-475-2123
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Best Local Similarity
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               GKKSKRSMNDPY
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US-09-545-551A-14
US-09-918-715-305
US-09-918-715-38
US-09-760-475-2121
US-09-760-475-2121
US-09-764-893-125
US-09-764-875-1816
US-09-764-875-816
US-09-764-875-816
US-09-764-881-157
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US-09-764-881-157
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Pred. No. 1.6e-169;
1; Mismatches 2;
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Length Indels

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Gaps

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70 60

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240 190 180

250

Result No.

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US-09-758-449-1158
; Sequence 1158, Application US/09758449
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, an:
; FILE REFERENCE: PM026
; CURRENT APPLICATION NUMBER: US/09/758,449
; CURRENT FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
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GENERAL INFORMATION:
APPLICANT: Genaissance Pharmaceuticals,
APPLICANT: Anastasio, Alison E
APPLICANT: Bieglecki, Karyn M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 98.8%;
Best Local Similarity 98.9%;
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TITLE OF INVENTION: HAPLOTYPES OF THE SELL GENE
FILE REFERENCE: SELL MWHIL116-PCT
CURRENT APPLICATION NUMBER: PCT/US01/26675
CURRENT FILING DATE: 2001-08-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/228,262
PRIOR FILING DATE: 2000-08-25
NUMBER OF SEQ ID NOS: 101
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Pred. No. 3.5e-169;
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                                                                                                                                  US-09-760-443-1328
                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-760-443-1328
                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
                                                        Query Match
Best Local S
Matches 313
                                                                                                                                                                                                                      SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1328
LENGTH: 341
TYPE: PRT
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APPLICANT: Rosen et al.
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SEQ ID NO 1158
LENGTH: 341
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1328, Application US/09760443
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Best Local
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                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Nucleic Acids, Proteins, FILE REFERENCE: PUZI2 CURRENT APPLICATION NUMBER: US/09/760,443 CURRENT FILING DATE: 2001-01-16
                                                                                                                                                                                                                                                                               Prior application data removed - NUMBER OF SEQ ID NOS: 2164
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ORGANISM: Homo
FEATURE:
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                                                                                                                                              NAME/KEY: SITE
LOCATION: (215)
OTHER INFORMATION:
                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                       ORGANISM: Homo
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les 313; Conservative
1 MIEPWKCQSTQRDLWNIFKLWGWTMLCCDELAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
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313; Conser
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98.7%;
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98.7%;
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                                                          Score 1807; DB 5;
Pred. No. 2.9e-145;
1; Mismatches 3;
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US-09-760-475-3252
; Sequence 3252, Application US/09760475
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Ant
; FILE REFERENCE: PTZ49
; CURRENT APPLICATION NUMBER: US/09/760,475
; CURRENT FILING DATE: 2001-01-16
; Prior application data removed - consult PALM or fil
; NUMBER OF SEQ ID NOS: 4122
; SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Prior application data removed - refer to NUMBER OF SEQ ID NOS: 2164 ; SOFTWARE: PatentIn Ver. 2.0 ; SEQ ID NO 1437 LENGTH: 184 TYPE: PRT : ORGANISM: Homo sapiens US-09-760-443-1437
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GENERAL INFORMATION:
APPLICANT: ROSen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and
FILE REFERENCE: PJE12
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
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Matches 183;
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99.5%;
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APPLICANT: Murray, Richard
APPLICANT: Glynne, Richard
APPLICANT: Glynne, Richard
APPLICANT: Watson, Susan R.
APPLICANT: EOS Biotechnology, Inc.
APPLICANT: EOS Biotechnology, Inc.
TITLE OF INVENTION: Novel Methods of Diagnosis of Angiogenesis,
TITLE OF INVENTION: Compositions and Methods of Screening for Angi
TITLE OF INVENTION: Modulators
FILE REFERENCE: 018501-000710US
CURRENT APPLICATION NUMBER: US/09/784,356
CURRENT ETLING DATE: 2001-02-14
PRIOR APPLICATION NUMBER: US 60/148,425
PRIOR APPLICATION NUMBER: US 09/637,977
PRIOR APPLICATION NUMBER: US 09/637,977
PRIOR FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: US 09/637,977
PRIOR FILING DATE: 2000-08-11
SOSTWARE: FastSEQ for Windows Version 3.0
TYPE: PRI
COCANISM: Home Serions
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                                                                                                                                                                                                                                                                                        Query Match 40.7%; Score 862; DB 5; Best Local Similarity 52.0%; Pred. No. 5.9e-65; Matches 145; Conservative 41; Mismatches 93;
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LENGTH: 184
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                                                                                                                                 TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                           WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYWIGIRKVNNVW 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSM 368
SPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGI 308
                                                                               SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
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                                                        ACTNTSCSGHGECVETINNYTCKCDPGFSGLKCEQIVNCTALESPEHGSLVCSHPLGNFS
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US-09-764-902-1145; Sequence 1145, Application US/09764902
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                                                                                                                                                                            Prior application data removed -
NUMBER OF SEQ ID NOS: 2318
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1145
LENGTH: 355
TYPE: PRT
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Best Local Similarity 61.8
81; Conservative
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PC017
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NUMBER OF SEQ ID NOS: 930
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 916
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                                            LOCATION: (113)
OTHER INFORMATION: 1
NAME/KEY: SITE
LOCATION: (149)
OTHER INFORMATION: 1
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CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                           APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PTZ13
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ORGANISM: Homo sapiens
FEATURE:
                                                                                                                              NAME/KEY:
                                                                                                                                               FEATURE:
                                                                                                                                                               ORGANISM: Homo sapiens
 OTHER INFORMATION:
                 NAME/KEY: SITE LOCATION: (150)
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189 PQCQLVIQCEPLEAPELGTMDCTH-PFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW 247

Query Match Best Local

13.0%; 33.5%;

Score 274.5; DB Pred. No. 9e-16; 8; Mismatches

DB 5;

70;

Indels

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Local Similarity hes 61; Conserv

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; OTHER INFORMATION: US-09-760-475-2126
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NUMBER OF SEQ ID NOS: 4122
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2126
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Best Local Similarity
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OTHER INFORMATION: 1NAME/KEY: SITE LOCATION: (193)
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CURRENT FILING DATE: 2001-01-16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: PTZ49
                                        OTHER INFORMATION:
NAME/KEY: SITE
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LOCATION: (192
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NAME/KEY: SITE
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NAME/KEY: SITE
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OTHER INFORMATION:
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TYPE: PRT
                                                                     LOCATION:
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Pred. No. 2.9
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RESULT 12
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PJZ12
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
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NUMBER OF SEQ ID NOS: 2164
SOFTWARE: PATENTIN VER. 2.0
SEQ ID NO 1321
LENGTH: 207
TYPE: PRT
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Best Local Similarity
Matches 60; Conserv
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LOCATION: (191)
OTHER INFORMATION: Xaa
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OTHER INFORMATION:
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                                                              LRKSLRKAKK 180
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Pred. No. 2.1e-15;
6; Mismatches 64
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Prior application data removed - oc
NUMBER OF SEQ ID NOS: 4122
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3255
LENGTH: 207
TYPE: PRT
ORGANISM: Homo sapiens
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US-09-760-475-3255
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LENGTH: 207
TYPE: PRT
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PTZ49
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Best Local Similarity
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CURRENT FILING DATE: 2001-01-16
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TITLE OF INVENTION: Nucleic Acids, Proteins,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: SITE LOCATION: (194) OTHER INFORMATION:
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LOCATION: (198)
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                   NAME/KEY: SITE
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LOCATION: (185)
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LOCATION: (151)
LOCATION: (151)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TEEVPSCQVVKCSSLAVPGKINMSCSGEPV----FGTVCKFACPEGWTLNGSAARTCGAT 130
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Pred. No. 2.1e-15;
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NAME/KEY: SITE
LOCATION: (194)
OTHER INFORMATION: Xaa eo
NAME/KEY: SITE
LOCATION: (198)
OTHER INFORMATION: Xaa eo
US-09-760-475-3255
                                                                                                                                                                                                                                                                                                                            ; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 615
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-875-615
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Best Local S
Matches 58
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Best Local Similarity
Matches 60; Conserv
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TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PJZ02
                                                                                                                                                                                                                                                                                                                                                                                                                                   Prior application data removed - NUMBER OF SEQ ID NOS: 1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/764,875
CURRENT FILING DATE: 2001-01-17
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OTHER INFORMATION: Xaa
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LOCATION:
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366 RSMN 369
                                    239 TCQA----
                                                                                                                                     255 QVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSP 314
                                                                                                                                                                                                                                           Local Similarity 31.9 les 58; Conservative
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                                                                                                     RAVKCSELHVNKPIAMNCSNLWGNFSYGSICSFHCLEGQLLNGSAQTACQENGHWSTTVP 238
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                                                                                                                                                                    VQCPALTTPGQGTMYCRHHPGTFGFNTTCYFGCNAGFTLIGDSTLSCRPSGQWTAVTPAC 178
                                                                 ICQKLDKSFSMIKEGDYNPLFI------PVAVMVTAFSGLAFIIWLARRLKKGKKSK 365
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31.6%; Pred. No. 2.1e-15;
tive 26; Mismatches 64
                                  -GPLTIQEALTYFGGAVASTIGLIMGGTLLALLRKRFRQKDDGK 285
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; Sequence 2, Application US/09911842
; GENERAL INFORMATION:
Search completed: October 13, Job time: 392 sec
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SEQ ID NO 2
LENCTH: 3571
TYPE: PRT
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Best Local Similarity 28.9%;
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CURRENT FILING DATE: 2001-07-24
PRIOR APPLICATION NUMBER: US 60/222,438
PRIOR FILING DATE: 2000-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Welcher, Amdrew A.
APPLICANT: Elliott, Gary S.
TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF FILE REFERENCE: 01017/37592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS:
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                                                                                                                                                                                                                                                                      1788 KCKAPGNPENG----HSSGEIYTVGAEVTFSCQEGYQLMGVTKITCLESGEWNHLIPYC
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                                                                                                        VCEPVKCSSPENINNGKY---
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Pred. No. 6.4e-12;
3; Mismatches 93;
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